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Index to Advertisers pp. 5 & 6

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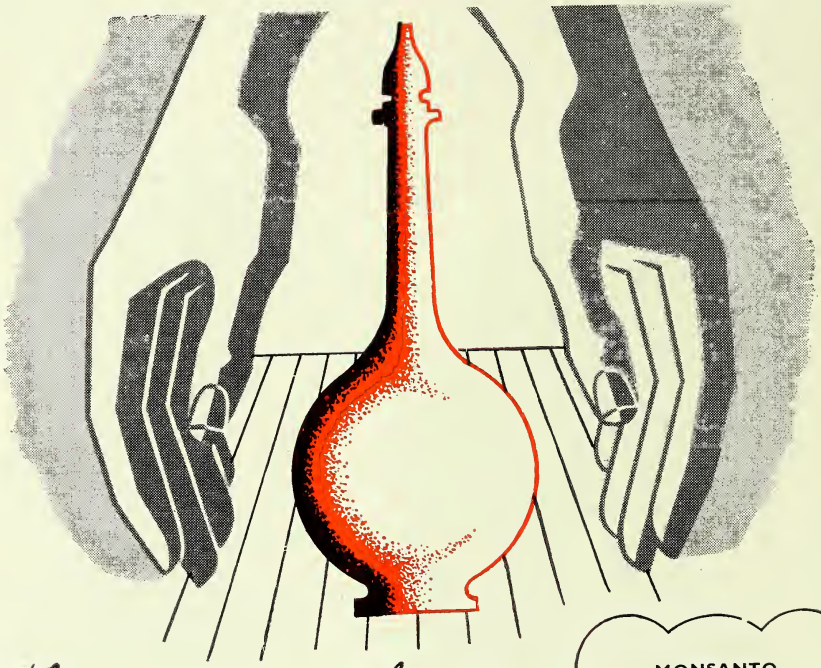

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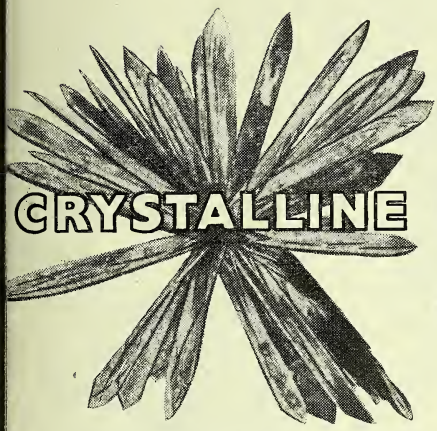

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INDEX TO ADVERTISERS

n Pill & Tablet Co., Ltd. xxx
ps, Ltd. 28
s (Paper & Plastics), Ltd. 34
, Stafford & Sons, Ltd. 19
er Pharmaceuticals, Ltd. 4
o-French Drug Co., Ltd. 8
ol Manufacturing Co., d. vii
o, Ltd. xvi
Tin Plate Printers, Ltd. xiv

y, R., & Son, Ltd. x
r Products, Ltd. 2
ow's Dog Mixture xiv
oe & Fish .....Col. Supp.
n, Astley & Co., Ltd. ... 28
sh Cod Liver Oils (Hull Grimsby), Ltd. xxxi
h Drug Houses, Ltd., The i
sh Dyewood Co., Ltd. ... ii
sh Felsol Co., Ltd. ...Cover iv
h Schering, Ltd. 5
mer, J. vi
ough, James, Ltd. Leader Page
oughs Wellcome & Co. ... 37

latone, Ltd. 29
s Flour Mills, Ltd. 10
n Box & Printing Co., d. xiv
wright, W. B., Ltd. 6
e Huskisson, Ltd. xxxvi

Cephos, Ltd. 4
Chemist & Drugstore News ... xiv
Chemists Sundries, Ltd. xxx
Church & Co. (Fittings), Ltd. xxvi
Ciba Laboratories, Ltd. Cover iii
Continental Laboratories, Ltd. 14
Cooper Laboratory, Ltd. 10
Cooper, Son & Co., Ltd. 28
County Perfumery Co., Ltd. 9
Cow, P. B., & Co., Ltd. ... xi
Cox, Arthur H., & Co., Ltd. 8
Cresswell Bros. & Marks, Ltd. xix

Daniel, Richard, & Son, Ltd. 13
Denver Chemical Mfg. Co. 10
Disprin 24
Domestos, Ltd. 20
Dunn Brothers Succrs., Ltd. v

Edme, Ltd. 26
Evans, Adlard & Co., Ltd. ... viii
Evans, Gadd & Co., Ltd. ii
Evans Medical Supplies, Ltd. 3

Ferber, Robert, Ltd. 32
Frankenberg, L., Ltd. xiv
Freudentheil, Smith & Co. Leader Page
Fromm, H., Ltd. x

Gale, Baiss & Co., Ltd. iv
Gardner, W., & Sons, (Glos.), Ltd. vi

George, Ernest J., & Co. Col. Supp.
Gibbs, D. & W., Ltd. 17
Gillette Industries, Ltd. .....ix, 15
Glaxo Laboratories, Ltd. 1
Goya 25
Greeff, R. W., & Co., Ltd. ... 7

Harley, T., Ltd. xiv
Harris, Hart & Co., Ltd. iv
Harrison, A., & Sons, Ltd. ... 4
Harwoods Laboratories, Ltd. xxxviii
Hathway, J., & Sons (Bermondsey), Ltd. .....Leader Page
Herts Pharmaceuticals, Ltd. xxviii

Institute of Optical Science (The School of) ...Leader Page
International Chemical Co., Ltd. xxv

Jaffajuce. Ltd. 32
Jeffreys, Miller & Co., Ltd.... 28
Johnson & Johnson (G.B.), Ltd. .....xxvi, xxxvii

Kearsley, C. & G., Ltd. vi
Kellys, J., (London), Ltd. ... vii
Kemball, Bishop & Co., Ltd. 22

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INDEX (Cont'd.)

Kent, G. B., & Sons, Ltd. xxiii
Kerfoot, Thomas, & Co., Ltd. 38
Knox, John (Stoke-on-Trent), Ltd. xxxii

Lantigen, Ltd. xxxiv
Lastonet Products xxiv
Long & Hambly, Ltd. xxxv
Loveluck Edwards & Co. xxxii

Macleans, Ltd. 23
Maclennan Brand Products, Ltd. 34
Manchester Oil Refinery, Ltd. 27
Manser, Henry, Ltd. vi
Manesty Machines, Ltd. 33
Markwell Edwards & Co. ... xxx
Mather, Wm., Ltd. 14
Matthews, S., & Co., Ltd. xxviii
Maw, S., Son & Sons, Ltd.... 11
Middleton & Co., Ltd. xxiv
Monsanto Chemicals, Ltd. Cover ii
Morley, Rogers, & Co., Ltd. xxiv
Moring, Alex. Publishers vi
Mysore, Trade Commissioner for, in London 36

National Glass Works (York), Ltd. xii
North British Rubber Co., Ltd. xvii

Oakfield & Co. 34
Olley, C., & Sons, Ltd. 34
Orridge & Co. ....Col. Supp.

Ozonal Laboratories (1930), Ltd. xii

Pal Chemicals, Ltd. xxvi
Pepsodent, Ltd. xxxiii
Percenta, Ltd. viii
Pharmaceutical Laboratories, Geigy, Ltd. v
Pharmaceutical Specialities (May & Baker), Ltd. Front Cover
Phillips, Chas. H., Chemical Co., Ltd. 31
Phosferine (Ashton & Parsons), Ltd. 30
Picker, Myram, Ltd. xxi
Pierson Morrell & Co., Ltd. iv
Polyestol, Ltd. xxxii
Potter & Clarke, Ltd. 35

"Radio Times" xxix
Rankin Bros., & Sons Leader Page
Richardson, G., (Medical Bottles), Ltd. v
Roche Products, Ltd. 16
Ronaldson, J., & Co., Ltd. Leader Page
Rose, J. L., Ltd. ii

Sangers, Ltd. 24
Scott & Turner, Ltd. xxx
Scott's Libraries, Ltd. x
Selka, Ltd. viii
Sellotape xv
Sessions, Wm., Ltd. Leader Page
Sidnick, M., & Co., Ltd. ... 26
Smith, T. & H., Ltd. iii

Smith's English Clocks Co. Ltd. ....
Southalls, Ltd. ....
Spa Brushes, Ltd. ....
Standard Yeast Co., Ltd. Leader
Stewart, Goodall & Dunlop, Ltd. ....

Thermogene Vapour Rub....
Trade Mark Protection Society Leader
Tyrer, T., & Co., Ltd. ....

United Glass Bottle Manufacturers, Ltd. ....

Vichy Celestine ....
Vitamins, Ltd. ....

Waide, Thos., & Sons, Ltd.
Wander, A., Ltd. ....
Wallace (Pharmaceutical Products), Ltd. ....
Wallis Laboratory, Ltd., The Leader
Watford Chemical Co., Ltd.
Wernet Dental Manufacturing Co. ....
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TE CALCIUM CHLORHYDROPHOSPHATE CALCIUM GLUCONATE CALCIUM GLYCEROPHOSPHATE CALCIU
ACTATE CALCIUM LACTOPHOSPHATE CALCIUM SODIUM LACTATE CALOMEL CAMPHOR SYNTHETIC CA
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N BLACK "CROW" BRAND CARBON BLACK CYCLOHEXYLAMINE DETERGENTS AND WETTING AGENTS
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YL DYPHENYL OXIDE DYESTUFFS INTERMEDIATES EMETINE & SALTS EPHEDRINE & SALTS EPSOM SALTS E
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NOBENZOATE ETHYL VANILLIN FERRIC CHLORIDE FERROUS SULPHATE FORMALDEHYDE FORMIC A
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CHLORBENZENE OXALIC ACID p AMINOBENZENE SULPHONAMIDE PELLETEX BLACK (FURNACE) PAMAQ
N PANCREATIN PARADICHLORBENZENE PARAFFIN, ALL GRADES PARAFORMALDEHYDE PARALDEHYDE P
ERMINT OIL PEPSIN PEPTONE PHENACETIN PHENAZONE PHENAZONE SALICYLATE PHENOBARBITOL PH
OBARBITOL SOLUBLE PHENOLPHTHALEIN PHENYL MERCURIC NITRATE PHENYL SEMICARBAZIDE PHOSP
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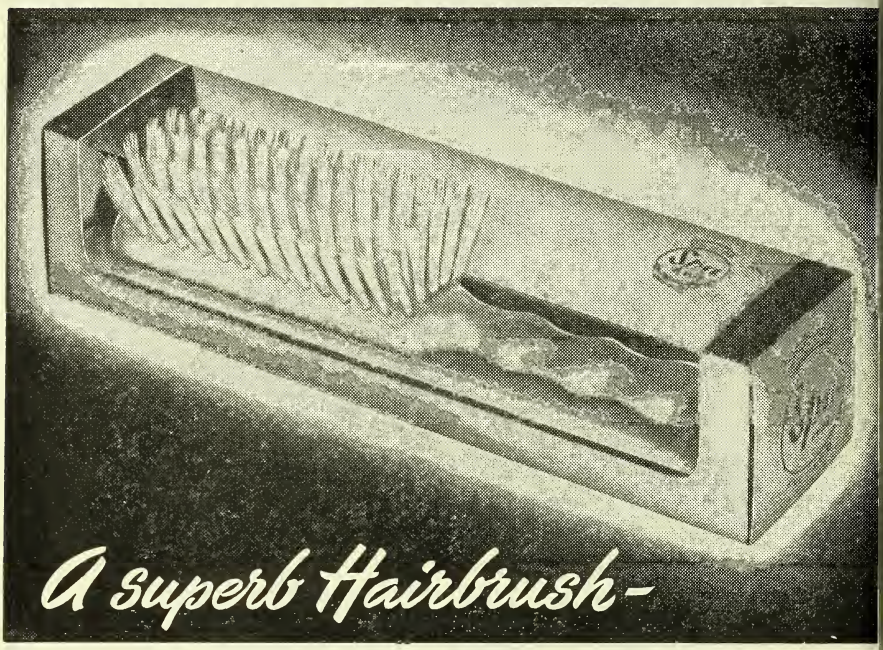

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Price reduction for MATHAMINTS

Sugar coated, spearmint flavoured aspirin ***chewing gum tablets.*** Due to a reduction in the cost of certain ingredients it is now possible to revise the price of MATHAMINTS. They remain unchanged in quality and packing. Available in attractive display outers containing 2 dozen cartons of twelve tablets.

REDUCED PRICES

Trade	Tax	Retail
8/-	**2/8**	**1/3**
per dozen	per dozen	each (inc. P.T.)

WILLIAM MATHER LTD · DYER STREET · MANCHESTER
(ESTABLISHED 1848)

N85

ENTROSALYL

Capsules

A new presentation of sodium salicylate in capsule form which obviates all the disadvantages associated with the administration of sodium salicylate in its usual form.

Each capsule contains 0·5 G. sodium salicylate and may be taken with complete freedom from nausea or gastric irritation.

P.A.T.A. Trade Prices :—
50's 32/- per doz. + 10/4 P.T.
200's dispensing pack 116/- per doz.
1000's dispensing pack 400/- per doz.
(Dispensing Packs tax free)

CONTINENTAL LABORATORIES LTD.
101 Great Russell Street, London, W.C.1.
Telephone : Museum 2042-3 Telegrams : Taxolabs, Phone, London

16 Set

A highly polished plated metal case of attractive design containing a heavily plated Aristocrat one-piece razor and a Gillette Dispenser holding ten Blue Gillette blades. Retail price 32/6 (inc. P. Tax).

Gillette Razor Sets — new models

Here are two new Gillette Sets, each containing an Aristocrat one-piece razor and a Gillette Dispenser — the easiest and most up-to-date of all shaving systems. These new models make ideal Xmas gifts and the fact that they are available now means that you can order supplies in time for your Xmas trade.

22 Set

A handsome fabric-covered case with plated rims containing a heavily plated Aristocrat one-piece razor and a Gillette Dispenser holding ten Blue Gillette blades. Retail price 26/3 (inc. P. Tax).

Trade enquiries to your usual wholesaler.

GOOD MORNINGS BEGIN WITH GILLETTE

GILLETTE INDUSTRIES LTD., GREAT WEST ROAD, ISLEWORTH, MIDDLESEX

The new polyvitamin preparation

PROTOVITE
TABLETS

Each 'Protovite' tablet contains three fat-soluble and four water-soluble vitamins, namely :

Vitamin A	1,250 Int. Units.	Vitamin B_1	0.5 mg.
Vitamin D	150 Int. Units	Vitamin B_2	0.75 mg.
Vitamin E	0.5 mg.	Nicotinamide	5.0 mg.
Vitamin C	15 mg. = 300 Int. Units.		

The 'Protovite' tablet is sugar-coated to facilitate administration. Doses range from 1-4 tablets a day but may be increased in accordance with patients' needs. Prices are moderate.

'Protovite' Tablets are issued in packings of 40, 100, 500 & 1,000

Samples may be obtained on application.

ROCHE PRODUCTS LTD.
Welwyn Garden City, Herts.

Further information on request . . .

For over 60 years
Gibbs Superfatted Cold Cream Soap
has been valued for its
***skin beauty** care . . .*

Now
with the addition of LIRIL to this beauty soap

Astral GIBBS CREAM SOAP opens a new chapter in the care of *SKIN SUPPLENESS*

- **Only Astral contains Liril***
- **Backed by striking national advertising**
- **Attractive profit margins**
- **Elegantly wrapped**
- **Supplies ready to meet your demand**

* Liril is the proprietary name of a newly-perfected brand of ingredient blending 3 elements of special value to the skin.

ell your Gibbs Cold Cream Soap customers about his new development in their favourite toilet soap!

D. & W. GIBBS LIMITED

GT I 1062-100

Why you should Sell

WANDER
BRAND

MALT & COD LIVER OIL

BECAUSE of its unsurpassed quality and its ready acceptance by the public, Wander Brand Malt Extract and Cod Liver Oil is a product which the pharmacist can recommend with full confidence, and in his own best interests. Wander Brand Malt Extract and Cod Liver Oil is outstanding in its field and its pharmaceutical excellence is recognised by physicians. The Cod Liver Oil used is the best obtainable and the Malt Extract is specially prepared by A. Wander Ltd. who are leading authorities on its manufacture. These two ingredients are combined in the proportions recognised by the medical profession.

With its attractive appearance and toffee-like flavour, Wander Brand Malt Extract and Cod Liver Oil is thoroughly enjoyed by children and adults.

On the P.A.T.A.

Wholesale Prices: 1 lb. Jars **18/9**; 2 lb. Jars **35/-**
Exempt from Purchase Tax

Retail Prices: 1 lb. Jars **2/1**; 2 lb. Jars **3/11½**

NOTE: Also supplied if required with attractive labels bearing your own name, at the same wholesale prices.

For further details write to:

A. WANDER, LTD.

42 UPPER GROSVENOR STREET, GROSVENOR SQUARE, LONDON, W.1

POWDERED DRUGS

•

Over a century's experience
goes into the milling of our:

DIGITALIS
IPECAC.
BELLADONNA
RHEI
LIQUORICE
ALOES
GENTIAN

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Send us your enquiries and orders

TAFFORD ALLEN & SONS LTD., Wharf Rd., London, N.1. CLErkenwell 1000

TAS/AL.336

THIS ADVERTISING SELLS STERGENE

★ NEWS FOR WOMEN ★

Joan Griffiths discusses the Best Way to Wash

Silks & Nylons

★ Joan Griffiths getting from the B.B.C. "Woman's Hour" Programme, continues her connection with domestic affairs as consultant with Stergene on washing problems.

A dessertspoonful of Stergene in lukewarm water is all you need to preserve the slinky freshness of treasured silks and nylons. Gently squeeze this solution through the garments, then rinse. With Stergene there is no risk of dainty materials being ruined by sticky soap-scum *and there is no wasteful lather* either; *all* the energy in Stergene is spent on cleaning—that is why you need so little. And here is a useful tip for the working girl. Undies put to soak in Stergene solution when you are getting washed and dressed in the morning are ready by the time you have finished—just squeeze them through, rinse and hang to dry. When you get home in the evening they will be ready to iron.

Send for booklet "HOW TO MAKE THE MOST OF YOUR STERGENE" to Joan Griffiths, DOMESTOS LIMITED, Newcastle upon Tyne, 3.

Stergene SCIENCE IN CLEANSING

NEWS FOR WOMEN

Joan Griffiths, recently from BBC's "Woman's Hour" Programme, continues her connection with domestic affairs as consultant with Stergene on washing problems.

Joan Griffiths

Discusses the New Detergents for

THE HEAVY WASH

Many women have asked me whether the new detergents are really suitable for the heavy wash. Well—it all depends. Some manufacturers recommend their products only for silks and dainty fabrics, others warn against boiling. Personally, I cannot afford to stock one for this job and one for that so I always use Stergene because it will do all my washing. Stergene will keep your silks and woollens in beautiful condition (there is nothing safer for baby things) and yet it is quite as effective for heavily soiled and greasy articles, such as tea towels, overalls, etc. Stergene can be boiled without the least harm to fabrics, though boiling is not necessary. Another thing—you can pour in as much Stergene as you like, but whilst there is no risk to the articles they will be no cleaner than if you use the small quantities recommended, so why waste it?

If your shopkeeper does not stock Stergene, write giving his name and address to:—Domestos Ltd., Mary Street, Strangeways, Manchester. Phone: BLACKfriars 6873.

Stergene SCIENCE IN CLEANSING

Wild claims are never mad for Stergene. A superabun dance of highly coloure superlatives is not require to persuade women to bu so good a detergent. Stergen will do all that is claime for it; it is an 'honest produc and what is said about can be believed. By buildin up confidence it create goodwill and in this wa Stergene makes *business*— good business—of cleansin

STERGENE MAKES BUSINESS OF CLEANSING

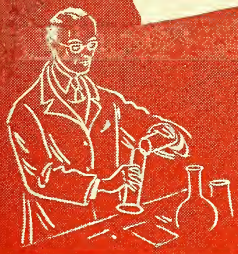
Stergene SCIENCE IN CLEANSI

A PRODUCT OF DOMESTOS LIMITED, NEWCASTLE UPON TYN

ST. T

other STERLING Specification BISMUTH CARBONATE

Formula—approximately $(Bi_2O_2CO_3)_2H_2O$.
Properties. A white or creamy white powder, without odour or taste. Insoluble in water, soluble in mineral acids with effervescence. The bulk density varies with the conditions of manufacture.
Standard. Bismuth carbonate should comply with the requirements of the British Pharmacopœia in all respects. It is usually manufactured in three grades of bulk packing density. Light — 11/13 lb. per cubic foot, Medium — 18/24 lb. and Heavy — over 36 lb.
Uses. Bismuth carbonate is prescribed for many forms of gastric disorder and in conjunction with "ant-acids" such as sodium bicarbonate, magnesium carbonate and calcium carbonate, form the mixtures associated with the name of Dr. Hugh MacLean, which are widely used for the alkaline treatment of digestive troubles. It is sometimes used in X-ray diagnosis and as a dusting powder.
Packages. 28 lb. parcels, 1 lb. cartons.
Manufacturers: THOMAS TYRER & CO., LTD. Stratford, London, E.15



STERLING
Brand Chemicals

THOMAS TYRER & CO. LTD. · STRATFORD · LONDON · E.15

CITRIC ACID

TARTARIC ACID • CREAM OF TARTAR

ROCHELLE SALTS • CALCIUM GLUCONATE

LITHIUM CHLORIDE • LITHIUM CARBONATE

LITHIUM HYDROXIDE

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GUARANTEED QUALITY

Kemball, Bishop

and Company Limited

ESTABLISHED 1870

MANUFACTURING CHEMISTS

Products under Development and Research

FUMARIC ACID • ITACONIC ACID

CROWN CHEMICAL WORKS, THREE MILL LANE, BROMLEY-BY-BOW, LONDON, E.3, EN

Telephone: ADVANCE 1234 (7 lines) Telegrams: KEMBALL, LONDON, ENG.
CODES ABC 6th, Bentleys Private

The successful Macleans publicity campaign is making Macleans Peroxide Solid Dentifrice the solid favourite of more and more people. In newspapers and magazines all over the country it is now featured with Macleans Peroxide Tooth Paste in the "Did you Maclean your teeth today?" advertisements. The kiddies enjoy its fresh taste, and grown ups find it so easy to use. You will find it an increasingly popular line.

MACLEANS

PEROXIDE

SOLID DENTIFRICE

MACLEANS LTD., GREAT WEST ROAD, BRENTFORD, MIDDX.

Phone: Ealing 6616 *Wires: Macleans, Brentford*

The problem was to neutralise aspirin

and to make it soluble. The problem has now been solved

Aspirin is acidic, sparingly soluble, and for many subjects a gastric irritant. By contrast, its calcium salt is neutral, soluble and bland. Unfortunately, however, calcium aspirin as ordinarily presented is unstable, and thus, sooner or later becomes contaminated with the breakdown products, acetic and salicylic acids. In Disprin the problem of providing pure calcium aspirin in stable and palatable form has been solved. Extensive clinical trials show that patients can take Disprin in large dosage and over prolonged periods without suffering the disturbances, gastric and systemic, that so commonly attend intensive aspirin therapy.

DISPRIN REGD *Neutral, stable, soluble, palatable calcium aspirin*

On prescription Disprin is free of Purchase Tax
Clinical sample and literature supplied on application

RECKITT & COLMAN LTD., HULL AND LONDON. (PHARMACEUTICAL DEPT., HULL)

Write for particulars of

GLYMIEL JELLY

bonus parcels

Now on offer at Reduced prices :

Small size Tubes per dozen **6/10** Large size Tubes per dozen **12/-**
(Plus Purchase Tax)

bonus 13 to the dozen

Retail Prices to the Public will not be reduced until

NOV. 1st, 1949

New Retail Prices will be:—
Small size 1/4 per tube (incl. p. tax)
Large size 2/4 per tube (incl. p. tax)

Full particulars from :

SANGERS LTD.

Agents for Osborne, Bauer and Cheeseman Ltd.,
258 Euston Road, London, N.W. 1.
Branches at Bristol and Newcastle.

More and more people are asking for

VICHY-CELESTINS

THE WORLD-FAMOUS FRENCH SPA WATER

Bottled as it flows from the Spring

There is an ever increasing demand for Vichy-Célestins, over 40,000,000 bottles of which are sold annually throughout the world. Showcards and leaflets available to retailers on request.

Sole Agents for the United Kingdom:
Ingram & Royle Ltd., 12 *Thayer Street, London, W.1., also distributors of the other famous French Spa Waters—Contrexéville-Pavillon, Evian and Vittel.*

Riviera in Spring

You like the idea? So do we—but you are the ones with the chance to go.

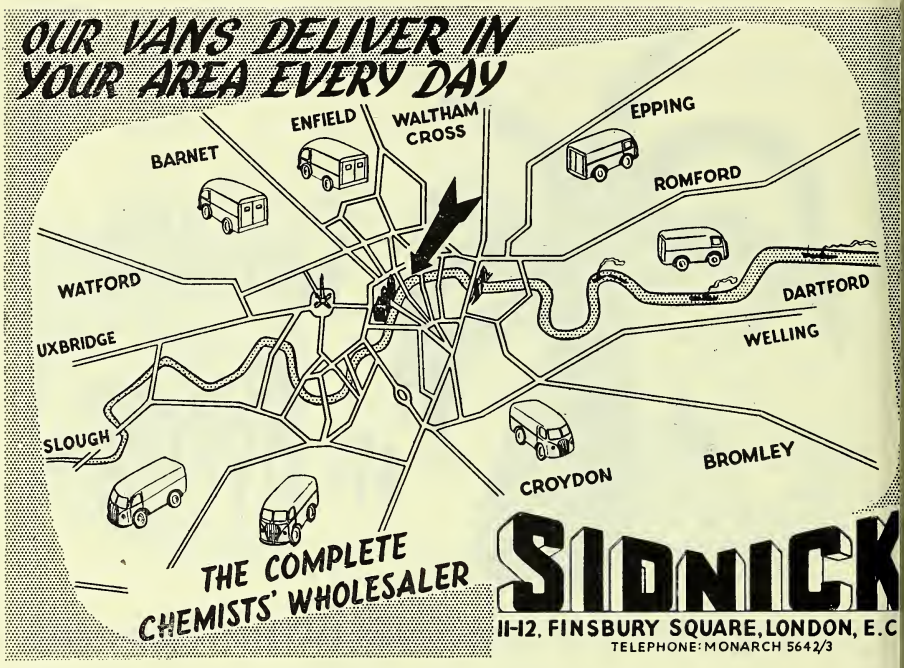
Goya announce a second Window Display Competition—open to all Goya stockists, except department stores. Our leaflet will be sent to you containing all the information you need about the National Competition and the Regional Competitions. It tells you about the prizes, and the names of the judges. The winners will be judged from photographs as before, and the photographs must be sent to Goya before November 21st, 1949.

Briefly, one main window should be devoted to Goya preparations for one week during the period October 24th to November 12th.

Goya will be happy to supply stockists with special display material—and the rest is up to you.

Incidentally, eight days on the French Riviera for two is the First Prize—all rail and sea fares and hotel accommodation paid.

Rather enviously, we wish you luck!


OUR VANS DELIVER IN YOUR AREA EVERY DAY
ENFIELD
WALTHAM CROSS
EPPING
BARNET
ROMFORD
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DARTFORD
UXBRIDGE
WELLING
SLOUGH
BROMLEY
CROYDON
THE COMPLETE CHEMISTS' WHOLESALER
SIDNICK
11-12, FINSBURY SQUARE, LONDON, E.C
TELEPHONE: MONARCH 5642/3

EDME
"Autumn Sun"
EXTRACT of MALT with COD LIVER OIL
AND FLAVOURING B.P. Net. 1LB.
EDME LIMITED, IMPERIAL HOUSE, REGENT STREET, LONDON, W.1
Phone: Regent 5563-4, Grams: Edme, Piccy, London
Works: Mistley, Essex

MANCHESTER OIL REFINERY (SALES) LTD

announce that, as from 1st October, 1949, they have taken over the United Kingdom distribution and sales of the products of Manchester Oil Refinery Ltd., including those products previously handled by the Subsidiary Company

PUREMOR LTD

The management and staff of PUREMOR LTD., together with all existing facilities, will be used to operate the WHITE OILS DIVISION of the new company, to whom enquiries for the following should be addressed:

TEXTILE OILS & SPRAY EQUIPMENT
for the pre-conditioning of cotton

SPINDLE OILS

MEDICINAL LIQUID PARAFFINS

PETROLEUM JELLY · PARAFFIN WAX

and **TECHNICAL WHITE OILS**

The decision to amalgamate PUREMOR LTD. into MANCHESTER OIL REFINERY (SALES) LTD. has been made in order to demonstrate clearly the intimate connection between the refinery and the sales organisation, and that the whole resources of the M.O.R. Group are behind the sales organisation. This step will result in a better service all round; the consumer, in particular, will benefit by having a direct link, through a central sales organisation, with a refinery operating in this country. One of the features of the new organisation will be a technical service working from the refinery itself. Such a technical service guarantees complete personal attention to each customer by a staff of experts with many years of experience in petroleum technology, industrial processes and the problems of the lubricating oil trade.

WHITE OILS DIVISION:

MANCHESTER OIL REFINERY (SALES) LTD

Twining Road, Trafford Park, Manchester, 17

and at 170 PICCADILLY, LONDON, W.1

THE M.O.R. GROUP OF COMPANIES: BRITISH REFINED OILS

BACK A "TREBLE CHANCE" IN WINTER LINE

HIGH QUALITY — QUICK SELLING — HIGH PROFIT

• AFTABS •

LIQUORICE & MENTHOL PELLETS

A WELL TRIED FORMULA

RETAILS AT 6d. PER CARTON — PROFIT 50% OF COST

• LANOLIN CREAM—WINTERGREEN CREAM •

1/- RETAIL 1/3d. RETAIL

TWO QUICK SELLING CREAMS — NON-GREASY & NON-STAINING — PROFIT 50% OF CO

• ZAIN •

THE NEW VITAMIN TABLET FOR THE TREATMENT OF CHILBLAINS CONTAINING ACETOMENAPHTHONE & NICOTINAMIDE

TUBES OF 25 TABLETS—1/3d. RETAIL PROFIT 66% OF COST

• AFKAP IODISED THROAT TABLETS •

BOTTLES OF 30 TABLETS—6d. RETAIL PROFIT 50% OF COST

SOLE MANUFACTURERS

AFKAPS LIMITED

105 TONBRIDGE ROAD

MAIDSTONE, KENT

BLYTON ASTLEY & CO., LTD.

Eagle Laboratories

LOWER BROUGHTON, MANCHESTER

thank their customers for their patience and forbearance during these difficult times, and assure them that every effort is being made to supply quickly lines which they have previously purchased.

CACHETS "FINOT"

17 Sizes to fit various types of machines

COOPER, SON & Co., Ltd.

120 Gloucester Road, LONDON, S.W.7.

Adapted for Headache, Neuralgia, and other powders

MILLAMALT

Malt Extract with added Natural Vitamin

Sole Manufacturers: JEFFREYS, MILLER & CO. LTD Leyland Mills, Wigan. *London Dept.* 19 Brookside Rd. N (A6500 I.U., D400 I.U. PER FL. OZ.)

BURNSIDE'S EUCALYPTUS OILS

Distilled in Australia by the largest distillers and refiners of Eucalyptus Oils in the world.—W. K. BURNSIDE, PTY., LTD., MELBOURNE, AUSTRALIA

80/85% B.P.	70/75% B.P.
Oil Euc. Dives 40/45%	Piperitone 90/95%
Oil Euc. Citriodora	Oil Euc. Phellandra

.... Phellandrene ....

UNIFORMITY OF QUALITY . CONSISTENCY OF ODOUR

Agents for U.K.: **WILSON & MANSFIELD, LTD., 15 Philpot LANE, LONDON, E.C.3**

Phone: MANSION HOUSE 9264-5-6 **(WHOLESALE ONLY)** *Grams: WYFIELD, LONDON*

These are PULLING

and these are SELLING!

There's no doubt about it—Persistent advertising in the women's magazines and the National Press is certainly showing results! Millions of women are reading about Kreemollient every month—thousands are looking for these smart and striking window bills and are asking for Kreemollient by name. And Kreemollient Hair Conditioning Cream is so good that practically everyone who tries it once is a life-long customer for repeat orders! Not surprising, really, when you realise that for years Kreemollient has been used professionally in leading hairdressing salons and that it is genuinely recommended by famous trichologists as the ideal hair beauty treatment. Don't be left out of this hard-hitting, hard-*selling* campaign. Put Kreemollient on *your* counter and start some real selling—now!

Kreemollient retails in smart tubes and cartons at 1/5½d. each (inc. tax). Trade price is 7/- per dozen tubes (plus 100% tax) packed in really attractive counter displays. To link up with advertising campaign, free window bills, (miniature on left) supplied with every delivery.

CAMILATONE LIMITED.
Edgware Road, Welsh Harp, London, N.W.9.

WE SELL CAMILATONE'S KREEMOLLIENT HAIR CONDITIONING CREAM

Aspirin Therapy brought to Perfection

MAGSILATE

ANALGESIC, ANTIPYRETIC TABLETS

- **Aspirin fully protected against deterioration**
- **Quicker absorption**
- **More effective action**
- **No gastric disturbance**
- **Palatable to eat**
- **No water required**

MAGSILATE is a CF product, sold *through chemists only*. Terms are profitable. Attractive showcards, informative literature and free samples supplied with orders.

Supplied in two sizes : 4d. & 1/10d. (incl. P. Tax).
Dispensing packs : 125 Tablets, 9/- net and 500 tablets, 35/- net (free of P. Tax).
A product of **WESTMINSTER LABORATORIES LTD.**, Chalcot Road, London, N W.1.

A TONIC for everyone

Most people need a Tonic at one time or another. For that reason it is sound policy to keep adequate stocks of Phosferine — The Greatest of all Tonics.
Send a post-card for colourful showcards to enable you to make a display to the best advantage.

The Registered Trade Mark "Phosferine" is the property of PHOSFERINE (ASHTON & PARSONS) LIMITED.

Let everyone see you sell

IN LIQUID OR TABLET FORM

PHOSFERINE

THE GREATEST OF ALL TONICS

Sole Distributing Agents in the United Kingdom :
BEECHAMS PILLS LIMITED, ST. HELENS, LANCS.

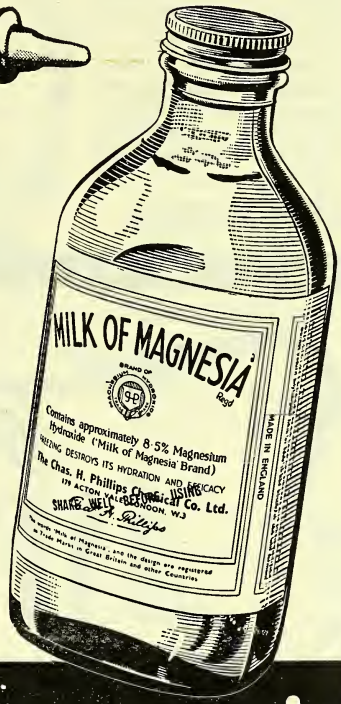
Bottle-fed babies—

THE Pharmacist's *advice*

Confronted, as he often is with a request for advice upon digestive disturbance when baby is bottle-fed, the Pharmacist may confidently recommend the use of * 'Milk of Magnesia'.

This antacid laxative checks the formation of indigestible protein curds and enables digestion to proceed with comfort.

Thus the baby is contented, receives full nutritional value from each feed and thrives.



'MILK OF MAGNESIA'

REGD. TRADE MARK *

THE CHAS. H. PHILLIPS CHEMICAL CO. LTD.,

179, Acton Vale, London, W.3.

It's FERBER'S for CAPSULES

Makers of

'CALCIVITA'

capsules for the treatment of colds, chilblains and circulatory deficiency.

'VITAMAXA'

capsules—a multi vitamin capsule correcting dietary deficiencies and enabling a properly balanced vitamin intake.

QUOTATION AND FULL DETAILS ON REQUEST

Apiol
Apiol & Ergotine
Blauds
Carbon Tetra-chloride
Cascara
Castor Oil
Cinnamon & Quinine
Cod Liver Oil
Copaiba
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Eastons Syrup

Glandular Hormone
Guaiacol
Halibut Liver Oil
Haemoglobin
Hormone
Ichthyol
Malefern
Multi Vitamin
Olive Oil
Quinine
Santal Oil
Vitamins A. B_1 B_2 B_6 C. D. E. K.

In bulk or packed

ROBERT FERBER LTD. CARLTON WORKS · ASYLUM ROAD · S·E·15 Phone: NEW GROSS 0231/2

Gold Cup

JAFFAJUCE

The Quintessence of Quality in Real Fruit Drinks.

Made from ripe, sun-kissed fruit and pure cane sugar.
Jaffajuce Orange, Jaffajuce Orange and Pineapple, Breakfast Jaffajuce (for a "Short" drink), Jaffajuce Lemon, Jaffajuce Grapefruit, Gold Cup Lime Juice.

JAFFAJUCE LTD., LONDON W.1 & GLASGOW ORDER THROUGH YOUR USUAL WHOLESALE CHEMISTS

MANESTY

TABLET MAKING MACHINERY

MANESTY F3 TABLET MACHINE

OUTPUT 85 PER MIN.

FOR TABLETS UP TO 3/4" DIAM.

MANESTY HAND TABLET MACHINE

OUTPUT 100 PER MIN.

FOR TABLETS UP TO 1/2" DIAM.

MANESTY E2 TABLET MACHINE

OUTPUT 85 PER MIN.

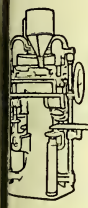
FOR TABLETS UP TO 1/2" DIAM.

MANESTY HAND COMPACT PRESS

OUTPUT 2000 COMPACTS PER DAY

MANESTY CP2 COATING PAN

STANDARD SIZE 30" DIAM.



MANESTY B.B.3 ROTARY TABLET MACHINE

OUTPUT 1000-1500 PER MIN.

FOR TABLETS UP TO 1/2" DIAM.

NOW PUBLISHED

"TABLET MAKING"

by

Arthur Little

and

K. A. Mitchell

121 Pages - 41 Illustrations

25 Formulæ

Cloth Bound - 15/- net. Post free

Can be ordered from:

Manesty Machines Ltd

or from the Publishers:

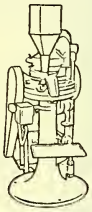
Northern Publishing Co. Ltd

37 Victoria Street, Liverpool, 1

MANESTY B3 ROTARY TABLET MACHINE

OUTPUT 400-500 PER MIN.

FOR TABLETS UP TO 1/2" DIAM.



MANESTY Nº2A TABLET MACHINE

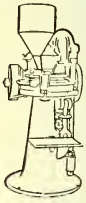
OUTPUT 55-220 PER MIN.

FOR TABLETS UP TO 1 1/2" DIAM.

MANESTY D3 ROTARY TABLET MACHINE

OUTPUT 300-350 PER MIN.

FOR TABLETS UP TO 1" DIAM.



MANESTY R.S.1 ROTARY TABLET MACHINE

OUTPUT 168-336 PER MIN.

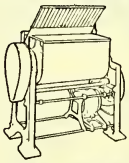
FOR TABLETS UP TO 1 3/8" DIAM.

MANESTY "ROTORGRAN" OSCILLATING GRANULATOR

OUTPUT 150-224 LBS. PER HOUR.

MANESTY MIXER

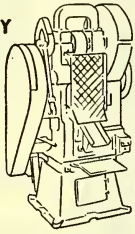
CAPACITY 100 LBS. OF POWDER



MANESTY Nº3 TABLET MACHINE

OUTPUT 30-400 PER MIN.

FOR TABLETS UP TO 2 1/4" DIAM.



MANESTY MACHINES LIMITED

5 SPEKE, LIVERPOOL, 19.

TELEPHONE: HUNTS CROSS 1972 TELEGRAMS: MANESTY, LIVERPOOL

WYREX
Trade Mark

BRUSHWARE
of distinction

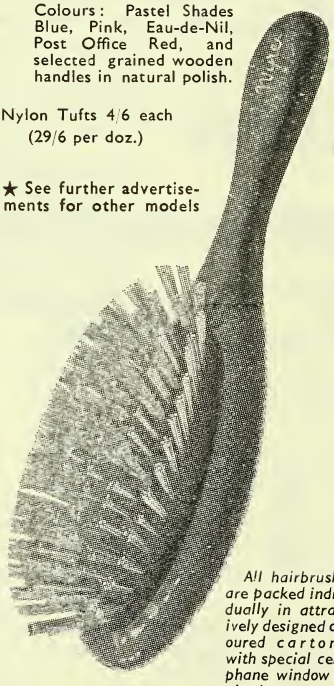
BABY'S OWN
BEAUTY BRUSH

Soft Rubber Cushion Hairbrush with Nylon Tufts.

Colours: Pastel Shades Blue, Pink, Eau-de-Nil, Post Office Red, and selected grained wooden handles in natural polish.

Nylon Tufts 4/6 each
(29/6 per doz.)

★ See further advertisements for other models



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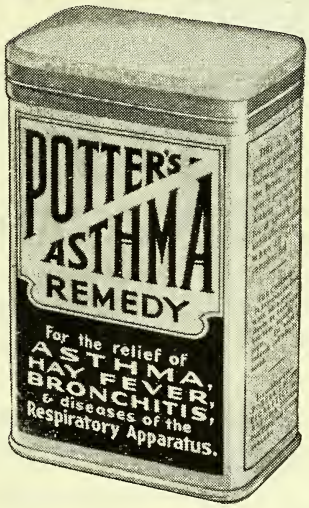

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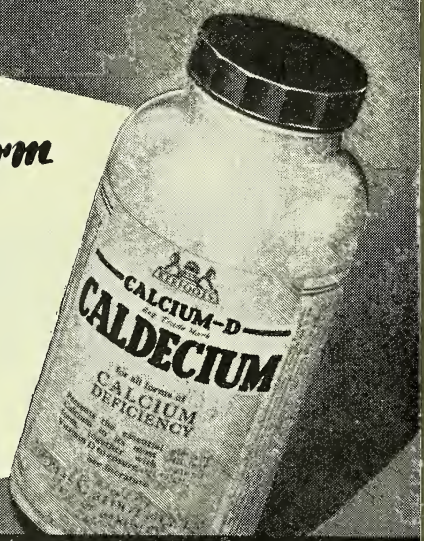

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CHEMIST AND DRUGGIST

for RETAILER—WHOLESALER—MANUFACTURER

OCTOBER 8, 1949

Published weekly at 28 Essex Street, Strand, London, W.C.2

Telephone: Central 6565 (10 lines). Telegrams: "Chemicus, Estrand, London."

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No. 3633 Volume CLII

CONTENTS

Births ... 490
BRITISH PHARMACEUTICAL CONFERENCE
Science Sessions ... 501
Business Changes ... 488
Coming Events ... 489
Company News ... 488
Correspondence ... 508
Deaths ... 490
Editorial Articles:—
Organised Research and Industry 499
Nitrous Oxide Again ... 499
Food Labelling Progress ... 500
Fifty Years Ago ... 497
Import Licensing Relaxations ... 496
Information Wanted ... 498
Irish News ... 486
Legal Reports ... 489
Local News ... 484
Marriages ... 490
Miscellaneous Inquiries ... 509
News of the Week ... 483
Overseas News ... 486
Personalities ... 490
Poisons Law, 1935-49—10 ... 495
Scientific and Industrial Research (Report of D.S.I.R.) ... 497
Scottish Industries Exhibition ... 491
Stock Exchange Prices ... 494
Topical Reflections ... 487
Trade Marks ... 514
Trade Notes ... 492
Trade Report ... 510
Wills ... 490

NEWS OF THE WEEK

Streptomycin Regulations.—From Octo- r 1 streptomycin has been included in the hedule of the Therapeutic Substances ct, 1925.

Atomic Scientists Wanted.—A recruit- g campaign has been launched by the inistry of Supply for scientific staff for e Ministry's atomic energy establish- ents.

First B.C.G. Consignment. — The first nsignment of B.C.G. vaccine ordered by e Ministry of Health for trials (see *& D.*, August 30, p. 276) has arrived London from Copenhagen. Further sup- ies will be flown to Britain in November, d arrangements are being made at the ublic Health Laboratory, Colindale, Mid- esex, for redirection to hospitals. It is ped to have regular weekly consignments the end of the year.

Challenge to British Industry. — The ollar Exports Board is of the opinion that valuation has greatly improved the pros- ct of dollar exports. Those exports, states e Board, are British industry's greatest responsibility. "In the last resort only the managements and workers of the individual businesses of Britain can do the job which must be done. Without them the Dollar Exports Board, trade organisations and the Government itself are powerless."

Scientific Advisers' Report. — The second annual report of the Advisory Council on Scientific Policy, 1948-49, recently published (H.M. Stationery Office, price threepence), lays special emphasis on the importance of applying science in the most efficient manner possible as a basic condition for the country's future prosperity. It draws attention to a continuing shortage of suitably qualified scientists for the needs of the Government and industry.

Cosmetic Chemists See Package Tests. —Members of the Society of Cosmetic Chemists recently visited the Leatherhead laboratories of the Printing, Packaging and Allied Trades Research Association (P.A.T.R.A.). Particular interest was shown in the up-to-date package testing service and in the mycological department.

Terms of Service Breach.—The Birkenhead Pharmaceutical Service Committee has asked the Ministry of Health to withhold £10 from the remuneration of a chemist for charging a customer for a container. The chemist said he had received a letter from the Executive Council authorising charges to be made for containers. When asked to produce the letter he said it had been destroyed. The committee found that no letter of that nature had been issued by the Council, and that the chemist had committed a breach of the terms of service.

Standards for Curry Powder.—On the advice of the Food Standards Committee, the Ministry of Food has made a Food Standards (Curry Powder) Order, 1949, which prescribes that curry powder shall contain at least eighty-five per cent. of spices, aromatic seeds and aromatic herbs, leaving manufacturers free to adjust flavour and pungency by the addition of up to 15 per cent. farinaceous material and salt (maximum limits for lead are given). The standards come into operation for sales by manufacturers on April 1, 1950; for sales by wholesale on July 1, 1950; and for sales by retail on October 1, 1950.

Banquet to Mr. Mallinson.—The opportunity given to the many friends of Mr. G. A. Mallinson, O.B.E., to do honour to him at a banquet in London on October 26 has met with a response encouraging to the organisers. The majority of the tickets were allocated to branches of the National Pharmaceutical Union but a limited number have been retained by headquarters for distribution direct to members who, for various reasons, are not able to associate themselves closely with local branch affairs and to other persons with whom Mr. Mallinson came in contact during his many years as secretary of the N.P.U.—particularly to those engaged in manufacturing, wholesale and hospital pharmacy. Immediate application should be made to the Secretary, National Pharmaceutical Union, 4 Queen Square, London, W.C.1, enclosing remittance (single ticket, 42s.; double, 84s.).

Export Convention.—Monsanto Chemicals, Ltd., 8 Waterloo Place, London, S.W.1, held a six-day export agents' convention in London during the week ended September 24, to give agents an account of the latest products of the company; to show them the latest plant developments at Ruabon and the new works at N port, Mon, and to provide an opportu for discussion and exchange of ideas trading problems in various markets. programme included business sessions which typical items were an addres each agent on conditions in his coun and talks on import licence problems; company's research and development gramme; technical products sales deve ment schemes; rubber chemicals plastics. The meetings were attende agents from nineteen countries, and programme ended with a dinner in Lo attended by the agents and executive the group.

LOCAL NEWS

Edinburgh Chemists' Golf.—The sults of the Edinburgh Chemists' Club matches played at Luffness New cently were as follows:—Duncan, Flock tankard and Allen & Hanbury prize, A Gillies (8), and A. S. Cooper (15), (tied); best scratch, J. B. McCaig Findlay, 80 (tied).

Chester Officers. — The following cers have been elected by the Ch Branch of the Pharmaceutical Society *Chairman,* Mr. O. Pritchard; *Vice-ch man,* Mr. A. F. C. Walton; *Secretary Treasurer,* Mr. A. W. Austin, 6 North Street, Chester. *Executive Commi* Messrs. L. Edwards, L. W. Hobson E. H. Rose.

Harrow Opening Meeting.—The ope meeting of the session of the Har Branch of the Pharmaceutical Society held at Harrow on September 29 when R. C. Davey gave a lecture (illustrated slides) on "Colour Photography." Davey outlined the principles of co photography, the various steps in the duction of Koda slides and the dye-tran printing process. The conditions u which best results were obtained and a common causes of failure were discus Mr. G. W. Horsley proposed and Miss May seconded a vote of thanks.

Bottle Warning to West Riding C mists.—At a meeting of the West Ric Executive Council at Wakefield on Sept ber 29, chemists were warned against us any "twopenny or threepenny insura scheme" for the return of empty medic bottles as such action might be conside contrary to their terms of service.

estion of the possibility of a stronger defi-
on of the "no payment" policy was
erred to the Pharmaceutical Committee.
e council then approved, without com-
nt, estimates amounting to £3,919,200
1950, which included £982,950 for
armaceutical services.

Awards to Apprentices.—Scholarships
vided by Timothy Whites & Taylors,
l., Leeds, under a training scheme for
prentices in the employ of the company,
re been awarded as follows:—£150
olarships, Miss Betty Biggin, Millom,
mberland; Miss Sheila D. M. Parish,
amington Spa; Mr. Walter W. Scott,
wcastle-on-Tyne; £75 scholarships,
ssrs. James W. Tomlinson, Bury, Lancs;
nk T. Shepherd, Bolton, Lancs, and Mal-
m H. Espley, Farnworth, Lancs. Eight
nor cash awards to first-year appren-
es and thirteen to second-year appren-
es have also been made by the company.

Walthamstow N.P.U. Branch. — Mr.
L. Moppett presided over a meeting of
Walthamstow Branch of the National
armaceutical Union at Walthamstow,
ndon, on September 20, when Mr.
nest Skues, M.P.S. (a member, N.P.U.
ecutive, and a past-president, P.A.T.A.
uncil), gave an address entitled "The
ars Ahead." Mr. Skues outlined four
jor events which had taken place in
armacy since he entered it. The first
s the foundation of the Proprietary
ticles Trades Association, which had so
withstood the inquiries of the Resale
ce Maintenance Committee and would,
thought, continue to do so. Secondly,
re was the passing of the Act that regu-
ised and legalised company pharmacy.
e foundation of the N.P.U. and the
passing of the National Health Insurance Act were the other outstanding events. Mr. Skues gave an account of visits he had made to the United States of America, Canada and Norway.

Liverpool Centenary Fund.—The Liverpool School of Pharmacy Centenary Fund (see *C. & D.*, July 23, p. 98), now stands at £310. The following have contributed since the previous list was published.

Birkenhead and Wirral Pharmacists' Association; Timothy Whites & Taylors, Ltd.; Mrs. Breckon; Mrs. Manley; the Misses M. B. Pealing; M. W. Lee; M. C. Dodd; K. E. Bowdler; H. I. Preston; H. G. Irvine; L. Davies; D. Hargreaves; N. F. Lete; N. V. Dodds; B. A. Stevens; B. Nervis; D. N. Evans; A. Arnold; N. Evans; E. J. Clements; E. Amos; E. F. Llewellin; E. Jones; M. Caldecott; Messrs. G. Jones; C. Latham; F. J. Ffoulkes; C. Hare; T. G. Anwyl; J. Roberts; J. Rae; A. K. Brien; R. G. Collins; C. F. Fore; J. C. Leigh; J. E. Jones; L. Edwards; A. W. Dellar; L. R. Bowskill; W. G. Cottam; T. L. Bowyer; E. C. Earlam; J. Broad; J. T. Hughes; M. M. Chisell; N. D. H. Shipley; T. H. Goldenberg; G. L. Hale; G. G. Short; W. A. Furness; F. J. Carter; R. Hewitt; M. A. Cooper; T. A. Brigham; H. W. Cottle; R. W. Charnock; R. G. Davies; N. Jones; J. Lyne; L. Birkby; T. Butler; F. B. Derrick; E. Mugarza; H. Jones; F. Fleetwood; M. B. Harrop; G. D. Farthing; D. G. Evans; R. Tigwell; N. G. Hughes; A. Gardner; P. R. Collis; H. S. Anderson; H. H. Atkinson; N. A. Steinberg; J. A. Hemensley; J. W. Gee; R. R. Williams; C. A. Conlan; S. Geede; W. G. McGiffin; E. Lloyd; E. Williams; N. Daulby; B. Burman; J. F. Barnes; J. I. Campbell; A. G. Rae; R. C. N. Powell; T. A. Garrett; E. S. Swinerton; E. W. Davies; A. Duckworth; C. N. Thompson; I. C. P. Riley; A. T. Lewis; D. D. Edkins; C. Mitchell; C. Latham; E. Jones; H. I. Harris; T. L. Griffiths; H. Rigby; H. C. Tristram; W. N. Tristram; T. W. Stroud; R. J. Price; E. A. Hebron; H. Pickering; R. Demaine; L. L. Osborne; R. R. Griffiths; I. Owen; H. D. Williams; G. L. Clubb; I. W. Jones; C. H. Crawshaw; B. Harris; J. F. Buchanan; H. I. Jackson; W. H. Rowlands; E. S. Greenwood; J. Gaulter; J. Griffiths; A. L. Owens; N. I. S. Crossley; T. E. Etchells; J. A. Greer; and R. A. Hughes.

TING BY AIR.—*The max social club tamins, Ltd., Upper ll, London, W.6) rtered a 24-seater kota for its outing September 3, flying Le Touquet, France. r many of the party was a first experi-e of travel by air, even the first visit the Continent. The ty had eight hours France, and unani-usly voted the out-the best the Club d ever had.*

IRISH NEWS

Appeal for Players. — The Chemists' Rugby Football Club, Dublin, is appealing for new members so that the club can field a minor and a junior teams in the coming season. Inquiries should be made to Mr. M. Kissane, M.P.S.I. (secretary), 10 Fitzroy Avenue, Drumcondra, Dublin (Telephone: Dublin 35697).

Tralee Guild Ball. — A successful ball under the auspices of the Tralee Guild of Pharmacy was held at Tralee, co. Kerry, on September 20. The organising committee included Mr. T. Chute (chairman), Miss B. Walsh (treasurer), Mr. P. Kennelly and J. Sullivan (joint secretaries). Tralee pharmacists who gave their patronage included Messrs. J. Chute, M. Kennelly, T. J. Harty, E. Buckley, P. J. Walsh, J. Reidy and M. M. O'Connor.

Councillors Returned Unopposed.—There will be no contest for seats on the Council of the Pharmaceutical Society of Ireland this year and the following outgoing seven Councillors (the only nominations) will, at the annual meeting of the Society on October 10, be declared re-elected unopposed: Messrs. John Gleeson (*Treasurer*), P. C. Cahill, C. J. Cremen, P. A. Brady (*President*), T. B. O'Sullivan, H. P. Corrigan and J. A. O'Rourke.

Irish Chemists' Golf.—The Irish Chemists' Golfing Society visited Elm Park golf club, Dublin, on September 14, to play for trophies presented by Kodak, Ltd. The winner of the first (an 18-holes strokes competition) was Mr. M. Costello (9), 64, with Mr. T. R. Bourke (15), 71, runner up. In a subsequent 18-holes bogey competition, Mr. J. Smyth (captain) (9), all square, emerged winner, and the second prize went to Mr. P. McAuliffe (13), all square. Other winners were: Mr. T. J. Banks (secret score), Mr. J. Murray (best first nine), and Mr. S. J. Savage (second best nine). The captain presided at a dinner held later in the clubhouse when the prizes were presented to the winners by Mr. J. J. Stafford (manager, Kodak, Ltd.). A vote of thanks to the company for the prizes was carried on the motion of Mr. Costello, supported by Mr. Bourke. The closing competitions of the season are being held at Hermitage on October 19, followed by the annual dinner.

Ulster Chemists' Golfing Society.—The autumn fixture and annual meeting of the Ulster Chemists' Golfing Society were held at the Holywood (co. Down) golf club September 28. Guests included Messrs. McAuliffe, P. Fahey, A. Hughes, J. Roche and E. McManus, of the Irish Ch mists' Golfing Society. The captain's pri was won by Mr. E. Jeffers, Belfast, and t afternoon competition for the best net sco by Mr. J. Doris, Downpatrick, Mr. Laverty being runner-up. The best gr score was returned by Mr. B. Flatl Royal Portrush, and the visitors' prize we to Mr. J. Pollock, Royal Belfast. M McAuliffe (deputy captain of the Irish S ciety) handed over to Mr. A. Steed, ca tain, a replica of the B.D.H. cup whi his team had won earlier in the seaso Mr. Steed presided at the annual meeti at which the following officers were el ted for 1950: *Captain,* Mr. H. Ranki *Treasurer,* Mr. C. Hall; *Secretary,* M W. H. Boyd. Thanks were expressed Mr. J. McRoberts (retiring treasurer), a also to Mr. C. Thompson, who resign from the Committee. His place has be taken by Mr. J. Jennings. The toast "Our guests" was proposed by Mr. McCutcheon and was responded to by M McAuliffe, Mr. Roche and the vice-ca tain of the Holywood Club. An entertai ment programme was contributed to Messrs. F. Doherty, C. Coulter, E. Robi son and W. Brown, who were thanked the motion of Messrs. Steed and Boyd.

OVERSEAS NEWS

Pooling of Cortisone Patents.—An e change of patents is reported between least five American companies n attempting the synthesis of Cortisone.

Imports at Pre-devaluation Rates.— accordance with a ministerial decision, t essential consumption goods, includi pharmaceutical equipment, will continue be imported into Greece at the pre-devalu tion rates of exchange.

Spain Not to Devalue.—Spain has d cided not to devalue her currency, and t U.S. dollar will remain, as hitherto, 10.95 pesetas. The sterling rate will 30.66 pesetas, against a former basic ra of 44.13 pesetas.

Brazil Export-import Law. — A B proposing the extension of export-impo law was approved recently by the Braz lian House of Deputies. Pharmaceutic and perfumery products have been excl ded from the list of commodities exempt from import licence.

TOPICAL REFLECTIONS

terthoughts on Science Sessions

Science Sessions being the heart of the itish Pharmaceutical Conference, those ople who do not read all the abstracts and discussions on the papers presented ll, I hope, think over your editorial mment on p. 463. As might have been pected, team-work was increasingly ticeable this year. The advantages of aring a scientific investigation with colgues are so obvious that this procedure almost certain to become the rule. Your narks on poor audibility may be conmed here. Mumbling in public is disurteous in effect if not in intention. The ll-known colloquy between an Oxford turer and a pupil is worth recalling: Did you hear me, Mr. Wilde?" "We erheard you, Mr. Pater." If speakers at ese sessions adopt the plan of addressing eir remarks to the occupants, real or aginary, of the back row of seats, they ll contribute to the comfort of everyone esent. On reading galley-proofs of veral of the science papers I had an casional disappointment because of inclusive results. As the number of onographs accepted by the Executive ommittee need not always exceed twenty or even nineteen!), I suggest that a firm titude to work sent in be adopted. It has ng been understood that original research a *sine qua non* for contributors to the oceedings; this excellent rule should be rengthened by rejection of incomplete udies unless exceptional circumstances stify their acceptance.

.H.S. Discontents

The fact that most of the items under ur "Local News" heading on p. 446 late to the National Health Service is ot accidental. Throughout Great Britain ere is anxiety about the present scheme schemes of payment of chemists' counts. In the hastily prepared plans for e Service far too much was left to the aditional talent for improvisation. The relessness that allowed Pricing Bureaux to nction with inadequate staffs is entailing nsequences that might have been foreseen. he delay in settling Edinburgh accounts ay be exceptional in degree but is of the me nature as other pricing delays. From orthamptonshire comes a resolution urg-g payment for chemists sharing in rota stems in small towns and villages. Common sense suggests that the chemists are entitled to it. There is a bitter contrast in this niggardly withholding of justice to these contractors while, on the other hand, allowing foreigners spending a holiday in this country to have without charge any medicines and appliances prescribed for them—including, for anything I know to the contrary, wigs and dentures. I should be much surprised if it were ascertained that the cost of rural chemists' fees for rotas would be greater than the cost of giving this free service to everyone from abroad who becomes a visitor to the United Kingdom.

Chemistry Simplified

If asked to name the English book on chemistry most popular in the first half of the nineteenth century, could most of us think of it? Probably not. In "Humour and Humanism in Chemistry" (1947) Professor John Read awards the prize to Jane Marcet's "Conversations in Chemistry." First published in 1805 in two volumes at 14s., it reached its sixteenth English edition in 1846; a similar number of American editions appeared, and the book was translated into French. The author was the wife of Alexander Marcet, F.R.S., a physician and chemist. "Her social background," Professor Read tells us, "enabled her to make the acquaintance of many of the leading figures in the world of science and literature." "Conversations in Chemistry" is written in the form of question and answer, a form popular throughout the past century. The teacher, designated Mrs. B, has two pupils, Emily and Caroline, the first-named serious, the other careless. To a modern reader the language of the teacher appears somewhat prim and stilted. Light is thrown on the proprieties of the day, the Professor points out, by the circumstance that in the earliest editions Caroline began an exclamation of delight with the word "Heavens!": this opening was subsequently expunged as unbecoming in even so volatile a girl as the speaker. Later in the Conversations, however, "Caroline managed to get the offending ejaculation past the censor." Though we may make fun of this popular exposition of chemistry, it supplied a need. A conclusive proof of its value is that Faraday has left us a note recording his indebtedness to the work.

Xrayser

NEW COMPANIES

Aerite, Ltd. (P.C.).—Capital £2,000. To carry on the business of manufacturers of, and dealers in, sprays, disinfectants, insecticides, etc. Alex. Monteith, director. R.O.: 95A Chancery Lane, London, W.C.2.

Kelvin Distributors, Ltd. (P.C.).—Capital £100. To carry on the business of retail and wholesale chemists, druggists, opticians, etc. Harold Glassner and Myer Fineberg, directors. R.O.: 152 Fenchurch Street, London, E.C.3.

Wild & Salthouse, Ltd. (P.C.).—Capital £2,000. To carry on the business of wholesale or retail chemists and druggists, etc. Marjorie Graham, director. R.O.: 307 Oxford Road, Chorlton-on-Medlock, Manchester.

J. W. Bessell, Ltd. (P.C.).—Capital £7,000. To acquire the business of chemists and druggists carried on by William S. Howells and Walter L. Darby at 13 Bellevue Road, Wandsworth Common, London, S.W. George N. Roberts, M.P.S., and John R. Bates, M.P.S., directors. R.O.: 7 Pavilion Parade, Brighton.

Industrial Fluids, Ltd. (P.C.).—Capital £10,075. To carry on the business of chemists and druggists, drysalters, oil refiners, etc., and to adopt an agreement with Ernest W. Steinitz, F. J. Grose and G. R. Hayes. First directors are not named. R.O.: Ibex House, Minories, London, E.C.

Verity Chemical Products, Ltd. (P.C.)—Capital £300. To carry on the business of manufacturers of and wholesale and retail dealers in bleaching and similar powders and preparations, chemicals, drugs, etc. Frederick R. Bartlett and John W. Fisher, directors. R.O.: c/o Fisher (Portsmouth), Ltd., Haslemere Road, Southsea, Portsmouth.

Company News

Greeff-Chemicals Holdings, Ltd.—An interim dividend of 3¾ per cent. is recommended, compared with 4 per cent. in the previous year.

P. B. Cow & Co., Ltd.—Payment of dividend on 5 per cent. cumulative redeemable preference shares, due September 30, has been deferred.

Petrochemicals, Ltd.—The company has registered an increase in capital by an additional £1,500,000 in £1 ordina shares to the existing £3,200,000, maki authorised capital £4,700,000.

Glaxo Laboratories, Ltd.—Net pro for the twelve months to June 30 amour to £826,355 after tax of £844,800. In t previous period of nine months the net pr fit was £520,651 after tax of £455,45 Allocations are made of £200,000 to obs lescence reserve and £200,000 to gener reserve, the same in each case as last yea A final dividend is recommended of 8 per cent. which, together with an interi already paid of 45 per cent., makes t same annual rate as last year. The dire tors propose to capitalise £716,715 of r serve and profits and to issue nine ne ordinary shares of 10s. each for every sha held.

BUSINESS CHANGES

J. H. Millican, M.P.S., F.N.A.O., h opened a pharmacy at 179 West Der Road, Liverpool, 6.

Vitamins, Ltd., Upper Mall, Londo W.6, have appointed Mr. E. T. Cartwrigh Birmingham, their representative for t counties of Staffs, Warwicks, Worcs a Salop.

A. De St. Dalmas & Co., Ltd., Juni Street, Leicester, have appointed Mr. L. Aitken, 40 Brackendale Road, Queer Park, Bournemouth, their representative f the counties of Hants, Wilts, Berks, Buck Oxfords, and Glos.

Mr. G. E. Hird, M.P.S., 187 Mark Place, Northallerton, Yorks, has joined business partnership with his son, M G. K. Hird, M.P.S. The business will carried on under the name of G. F. Hi & Son.

Sidnick & Co., Ltd., Finsbury Squar London, are opening shortly a new bran depot at Crown Street, Brighton. A dai delivery will be made along the coast fro Hastings to Portsmouth and other plac in Sussex, Surrey, Kent and Hampshi will receive at least two deliveries p week.

Thorium, Ltd., who have acted as ma aging agents of the Ministry's Radiochem cal Centre, Amersham, Bucks, since Nover ber, 1946, terminate their contract c March 31, 1950. The normal commerci activities of the company in the manufa ture of industrial radioactive preparatio such as luminous compound are n affected by the change.

LEGAL REPORTS

Indian Hemp from English Garden.—Birmingham, recently, Gurbachn Singh, Sikh, Belgrave Road, Birmingham, pleaed guilty to having in his possession dian hemp alleged to have been grown a local allotment. He was fined £50 d costs.

Transactions in Saffron.—At Bow Street, ndon, police court recently, fines totalg over £4,000 were imposed on Biddle, wyer & Co., Ltd., London, Leslie Wilm Dodds, a director, and Jacques Albert rnier, Paris, on charges of dealing in 9 lb. of saffron, the importation of which prohibited.

Convicted for Receiving.—At Belfast corder's court, recently, Francis B. Barnwell, grocer, was found guilty of receivg 8,590 razor blades (part of a total of ,000 stolen during a burglary at the ing Street, Belfast, premises of Hugh arshall & Co., Ltd.), knowing them to ve been stolen. He was sentenced to four onths' imprisonment. The jury disagreed the guilt or otherwise of another man arged with receiving the 12,000 blades d he was put back for re-trial.

Alleged Forged Prescriptions. — At arylebone, London, police court, rently, Germaine Bragginton, a French bject, Winchester Street, Victoria, Lonon, S.W.1, was charged with obtaining 24 npoules of pethidine and 10 gr. cocaine drochloride from John Bell & Croyden, igmore Street, London, W.1, by means a forged National Health Service presiption. Elsie Thompson, thirty-five, midife, was charged with obtaining from the me firm, and in a similar way, 12 o-mgm. ampoules of pethidine. Both ere remanded.

Pharmacy Act Fines.—At Nuneaton on eptember 29 Arthur General Attwood, 3 Coton Road, Nuneaton, was fined a tal of £28 3s. on five charges under the harmacy Acts to which he pleaded guilty. he charges included selling, on June 24, poison not in accordance with a preription given by a qualified medical practioner. Defendant's premises were visited an inspector on June 24 and an inspecr of the Pharmaceutical Society asked for bottle of Sona asthma tablets which conined a quantity of phenobarbitone. He so purchased a packet of Antikamnia tabts (containing acetanilide).

COMING EVENTS

Monday, October 10

SOUTHAMPTON BRANCH, PHARMACEUTICAL SOCIETY, Polygon Hotel, Southampton, at 7.30 p.m. Mr. F. H. Oliver on "Hormones and Carbohydrate Metabolism."

MERSEYSIDE BRANCH, NATIONAL ASSOCIATION OF WOMEN PHARMACISTS, Red Cross Rooms, Hackin's Hey, Liverpool. "President's Night." Tea at 7 p.m., then a "Bring and Buy" sale.

Tuesday, October 11

BOLTON PHARMACEUTICAL ASSOCIATION, Reform Club, Bowkers Row, Bolton, at 7.30 p.m. Lecture, "Some Recent Advances in Therapeutics."

FINE CHEMICALS GROUP, SOCIETY OF CHEMICAL INDUSTRY, Royal Institution, Albemarle Street, London, W.1, at 7 p.m. Lecture by Professor M. Stacey, Ph.D., D.Sc., F.R.I.C.

NOTTINGHAM BRANCH, PHARMACEUTICAL SOCIETY, lecture theatre of the Medico-Chirurgical Society, St. James' Street, Nottingham, at 7.30 p.m. Professor H. Berry, B.Sc., Ph.C., F.R.I.C., on "The Structure of Soap Solutions and their Importance in Pharmaceutical Practice."

Wednesday, October 12

BOLTON PHARMACEUTICAL ASSOCIATION. Visits to Thomas Kerfoot & Co., Ltd., Bardsley Vale and to Blackpool illuminations.

LEEDS BRANCH, PHARMACEUTICAL SOCIETY, Parkway Hotel, Leeds, at 6.30 p.m. Reception, followed by dinner and dance. Tickets 21s.

WALLASEY PHARMACISTS' ASSOCIATION. Visit to Bob Martin, Ltd., Southport. Meet at Seacombe Ferry for 2.30 p.m. boat for Liverpool.

TEES-SIDE BRANCH, PHARMACEUTICAL SOCIETY, Vane Arms Hotel, Stockton-on-Tees, at 7.30 p.m. Mr. T. Heseltine, M.P.S., on "The Pharmacist and the National Health Service."

Thursday, October 13

BRADFORD BRANCH, PHARMACEUTICAL SOCIETY, Midland Hotel, Bradford, at 7.30 p.m. Address by Mr. Granville Shaw.

BRISTOL BRANCH, PHARMACEUTICAL SOCIETY, Board Room, Guildhall, Small Street, Bristol, at 7.15 p.m. Mr. T. Heseltine (a member of Council) on "The National Health Service."

GUILDFORD BRANCH, PHARMACEUTICAL SOCIETY, Victoria Hotel, Aldershot, at 7.45 p.m. Debate, "The Manufacture and Dispensing of Barbiturates should be made Illegal in this Country."

WESTERN PHARMACISTS' ASSOCIATION and WEST LONDON BRANCH, PHARMACEUTICAL SOCIETY, Slater's Restaurant, 142 Strand, W.C.2, at 7 p.m. Supper and whist drive. Tickets 7s. 6d. each from Mr. Clifford Evans, 135 Ladbroke Grove, W.11.

CHEMISTS' RUGBY FOOTBALL CLUB, Crystal Ballroom, Dublin, at 8 p.m. Annual dance.

Friday, October 14

EXETER BRANCH, CHEMICAL SOCIETY, Washington Singer Laboratories, Prince of Wales Road, Exeter, at 5 p.m. Lecture by Dr. K. Lonsdale, F.R.S.

Guide to B.P.—An 86-page "Guide to the British Pharmacopœia, 1948" has been issued by the Federal Council of Pharmaceutical Societies of Australia in association with Drug Houses of Australia, Ltd.

BIRTH

WATT.—At Elsie Inglis Memorial Hospital, Edinburgh, on September 27, Nancy, the wife of David Watt, Ph.C., 34 New Row, Tranent, East Lothian, of a son.

MARRIAGE

STOUT—MACGREGOR. — Recently, at Morningside Parish Church, Edinburgh, Cecil H. Stout, B.Com. (younger son of Mr. Henry Stout, Ph.C., Belmont Gardens, Edinburgh), and Malvina Scott MacGregor, Edinburgh.

DEATHS

FLOYD.—On September 15, Mr. Arthur Stanley Floyd, M.P.S., 55 Plasturton Avenue, Canton, Cardiff. Mr. Floyd qualified in 1926.

JULEFF.—On September 20, Mr. John Juleff, M.P.S., 252 Barry Road, East Dulwich, aged seventy-two.

MACKENZIE.—On September 22, Mr. Alfred Ronald Mackenzie, M.P.S., 62 Almonds Green, West Derby, Liverpool, 12, aged thirty-eight.

PHILLIPS.—On August 21, Mr. Francis Daniel Phillips, The Dingle, Rudboxton, Haverfordwest, aged seventy-eight. Mr. Phillips qualified as a chemist and druggist in 1893.

STACEY.—On September 16, Mr. Wilson Stacey, Aviscroft, Maytree Avenue, Worthing, Sussex, formerly of Hampstead, London, aged eighty-six. Mr. Stacey qualified as a chemist and druggist in 1885.

STUART.—At Edinburgh on September 23, Mr. Findlay Stuart, M.P.S., aged eighty-six. Mr. Stuart was for fifty years in business in Broxburn, West Lothian, prior to his retirement in 1934. For fifty-nine years he acted as president and financial adviser to Court Cardross, Ancient Order of Foresters. For a term he served as its Chief Ruler, and he presided at the Court's jubilee celebrations in 1935. The funeral took place to Uphall on September 26. Mr. Stuart is survived by a son (a doctor in Greenock) and two daughters.

THIRSK.—On August 22, Mr. Arthur Tom Thirsk, M.P.S., 716 Beverley High Road, Hull, aged eighty-three.

TREMOULET.—On June 6, Mr. Joseph Leon Rene Tremoulet, M.P.S., 16 Railway Street, Durban, Natal, South Africa. Mr. Tremoulet qualified in 1910.

PERSONALITIES

DR. E. N. DA C. ANDRADE has be appointed director of the Royal Institutic

MR. D. A. RIMMER, who has be elected president of the Wolverhampt Branch of the Pharmaceutical Society, holds office in the jubilee year of the Branch and becomes the first president to wear a chain of office subscribed for by members to mark the occasion. Mr. Rimmer is also chairman of the Wolverhampton Branch, National Pharmaceutical Union, and vice-chairman, Wolverhampton Pharmaceuti Committee. Apprenticed with Boots, Lt at Bromsgrove, he qualified in 1927 af study at Birmingham. He went into bu ness on his own account at his pres pharmacy, in Dudley Road, Wolverham ton in 1937.

MR. BRIAN GEORGE JELLEY, 30 Colw Road, Leicester, has been awarded Umney Memorial prize for 1949.

MR. HENRY H. COWZER (President the Pharmaceutical Society of North Ireland) has been appointed a justice the peace for the City of Belfast.

A GRANDSON was born to Mr. Victor Iddon, M.P.S. (a director of Selles D pensing Chemists, Ltd., Beverley, Yorl on September 20.

WILLS

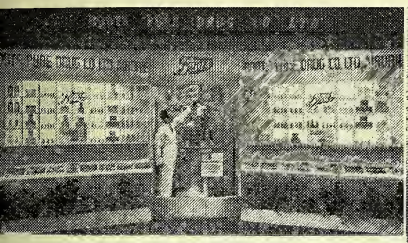
MR. T. NEEDHAM, M.P.S., 36 Milvert Road, London, N.W.6, left £33,5 (£30,914 net).

MR. S. PHILLIPS, Ph.C., Gonna, E mondsham Road, Verwood, Dorset, f merly in business at Horwich, Lancs, a Wolverhampton, left £13,815 (£13,7 net).

MR. A. DUFFIELD, M.P.S., 23 Co naught Avenue, Gorleston-on-Sea, N folk, manager of the Broad Row, Gre Yarmouth branch of Boots, Ltd., and p viously for twenty-five years manager the company's branch at 49 Bridge Stre Peterborough, left £3,963 (£1,973 net).

SCOTTISH INDUSTRIES FAIR

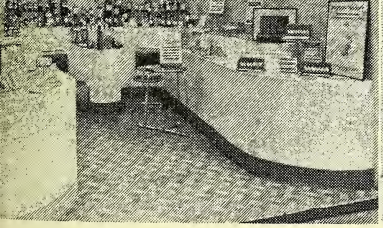
ıe Scottish Industries Exhibition, held at e Kelvin Hall, Glasgow, September 1-17, s the first trade fair to be opened by e Queen. Accompanied by Princess Mar-ret, Her Majesty made a detailed tour the two miles of stands.

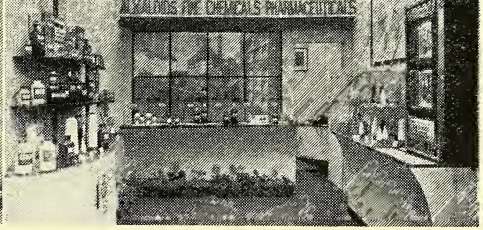


ıds of Boots Pure Drug Co., Ltd., Airdrie, above, Callander & Tully, Ltd., perfumery manufacturers, Edinburgh, at right.

During its run the show attracted over ɔ,000 visitors from many parts of the rld. Among the exhibitors were Boots re Drug Co., Ltd., who displayed a ection of pharmaceutical and medicinal eparations produced at their factory at drie, including Mylol (an insect repel-t), Gastomag, and other preparations. feature that attracted much notice was aspirin tableting machine in operation. ɪncan, Flockhart & Co., Edinburgh, anged their stand to interest pharma-ts, medical practitioners, anæsthetists d industrialists. Products shown included ffedrin, Haemanol, Vitatone, Ascoden lets, chloroform, ether and chloryl æsthetic, Spinal D, *d*-tubocurarine chlo-e, decamethonium iodide (C 10) and ıtamethonium bromide (C 5). T. & H. Smith, Ltd., had on view specimens of many alkaloids, fine chemicals, and pharmaceutical products, including galenicals. The Dangerous Drugs Acts Regulations precluded exhibiting some of the most important products of the company, but those on view included aloin, atropine, cantharidin, capsicin, chloral hydrate and chloroform. Orthopax, Ltd., showed foot appliances incorporating the use of flock. Callander & Tully, Ltd., had on view a new Scottish perfume, Edinval, in a bottle moulded to the likeness of a Scottish thistle, and surmounted by a transparent dome. They also had on show lavender water and eau de Cologne. The stand of Imperial Chemical Industries, Ltd., typified the company's ramifications north of the Tweed and showed principal products of its Scottish plants. Exhibits from various divisions included commercial explosives, Paludrine, chemical fertilisers, synthetic veterinary drugs, disinfectants, salt licks and insecticides.

Stands of Duncan, Flockhart & Co., Edinburgh, left, and T. & H. Smith, Ltd., Edinburgh, below.





TRADE NOTES

Pressed Medicine Tumblers. — On another page Wood Brothers Glass Co., Ltd., Barnsley, Yorks, illustrate and describe their pressed medicine tumblers.

Bonus Offer. — In return for window display, Wilcox, Jozeau & Co., Ltd., 7 White Lion Street, London, N.1, are offering a bonus (details of which are given on another page) on all orders of 3½ doz. Valda pastilles.

Available on Prescription. — The Lederle Laboratories division of Cyanamid Products, Ltd., Brettenham House, London, W.C.2, announce that supplies of Aureomycin hydrochloride, Lederle, are now available to pharmacists on urgent prescriptions through the usual channels.

Price List.—The autumn 1949 price list of essential oils and perfumery products which is issued by Stafford Allen & Sons, Ltd., Wharf Road, London, N.1, has been completely redesigned; it now contains forty pages, with thumb index for quick reference to the essential oils or perfumery compounds sections.

Toilet and Bath Soaps.—The Dubarry Perfumery Co., Ltd., Goldstone Laboratories, Hove, 4, Sussex, announce the reintroduction of their Crystal bath and toilet soaps, presented in coloured transparent wraps, as pre-war. The cartons contain four toilet-size (3 oz.) or four bath-size (6 oz.) tablets.

A Pioneer in Alginates.—Writing in the "Glasgow Herald" recently, Mr. H. W. Bannister, managing director of the Liverpool Borax Co., Ltd., pointed out that the company commenced the manufacture of algin about forty years ago at its Swan Works, Borax Street, Liverpool. Output at the time averaged two tons weekly but has subsequently been substantially increased.

Products Discontinued.—Glaxo Laboratories, Ltd., Greenford, Middlesex, have discontinued issuing the following products: Clinestrol tablets; dienœstrol tablets; Pelonin tablets; Pelonin ampoules; Pelonin amide tablets. Messrs Glaxo point out that the correct title of their oily injection of procaine penicillin G with crystalline sodium penicillin G is Prolopen, and not as previously given.

Second Display Competition. — Goya, Ltd., 161 New Bond Street, London, W.1, announce that they are organising a second window display competition open to all Goya stockists except departmental sto A leaflet is being sent to each dealer g ing details of the prizes, names of jud etc., and the winners will, as in the f competition, be judged from photograp These must reach Messrs. Goya bef November 21. (Further details may found on another page of this issue).

New Concentration at Reduced Pri —To meet difficulties of administrat and high price, Evans Medical Suppl Ltd., Speke, Liverpool, 19, announce t on September 29 Heparin Evans is be made available in a concentration 25,000 international units per mil bottles of 5 mils, for intramuscular intravenous injection (avoiding the ne sity for intravenous injection during night). A slight reduction in price ta effect on the same date. Messrs. Ev point out that their pharmacognosy rec nition set, to which reference was m last week, is supplied exclusively thro chemists (not direct).

Soap "Lemons."—Hantri (Calvac Beauty Preparations, Ltd.), 417 Batter Park Road, London, S.W.11, are putt on the market in the next soap per (commencing November 7) Savon Citr a triple-milled lemon-shaped soap of h quality at a popular price. The soap be packed in display boxes, each ta wrapped in transparent tissue. A select of the company's Calvacade beauty p parations is on view at the British E bassy, Brussels, throughout October, at p ces calculated on the new advantage rate of exchange.

Distribution Change. — On Octobe Manchester Oil Refinery (Sales), L Twining Road, Trafford Park, Manches 17, take over the United Kingdom dis bution and sales of the products of M chester Oil Refinery, Ltd., including p ducts previously handled by the subsidi company, Puremor, Ltd. The mana ment and staff of Puremor, Ltd., being used to operate the white oils d sion of the new company, to which quiries for, among other things, medici liquid paraffins, petroleum oil, para wax and technical white oils should addressed.

35-mm. Developing Tank.—A r daylight-loading tank—the Essex—for veloping 35-mm. films is being distribu to the trade jointly by Johnsons of Hend

Ltd., Hendon Way, London, W.4, and Neville Brown & Co., Ltd., Newman Yard, Newman Street, London, W.1. The tank, which is fully covered by British patents, takes thirty-six frames, 36 x 24 mm., of all makes of 35 mm. film. If desired, part of the film can be developed and the cassette, with the remainder, put back in the camera. Economy is ensured by the 7-fl.-oz. capacity of the tank, and full time-and-temperature control by a built-in thermometer.

Non-slip Nailbrush. — Addis, Ltd., Brushworks, Hertford, have introduced the

Grippy nailbrush which is designed to give a firm grip even in soapy water. The brush is available in the same colours (blue, pink and green) of transparent plastic as the Addis beauty brush recently reviewed in these columns.

Standardised Paper Boxes. — Robinson & Sons, Ltd., Wheat Bridge Mills, Chesterfield, have introduced a system of unit reference numbers for use when ordering round boxes for pills, ointments, tablets, etc., corresponding to the capacity of the boxes in fluid drachms of water. Where necessary, nominal sizes have been adjusted to hold the stated capacity, except that in "cut-down" versions (retained at the request of many customers), the capacities are, for pill boxes, two-thirds, and for ointment boxes, three-fifths, of those of the corresponding deep boxes. Thus a so-called "1-oz. ointment box" accommodates 10 fl. oz. of water and is numbered 10; a "cut-down 1-oz. box" holds 6 fl. oz. and is numbered 6. A British Standards Specification for containers of this type is understood to be nearing agreement prior to publication. Messrs. Robinson are adopting the same numbering system for their Little John drums, and they point out that both these and the round boxes are back to pre-war quality.

Price Changes. — The British Drug Houses, Ltd., Graham Street, City Road, London, N.1, announce that the prices of Heparin, B.D.H. (vials of 5 mils containing 500, 1,000 or 5,000 international units per mil), were reduced on October 1. Penicillin preparations of the company affected by the previously announced reductions in price of penicillin (*C. & D.*, October 1, p. 454) comprise penicillin sodium salt (vials containing 100,000, 200,000, 500,000 or 1,000,000 i.u.; jar containing 10 mega units); penicillin oil - wax suspension, B.D.H. (ethyl oleate or arachis oil), vials of 10 and 20 mils containing 125,000 i.u. per mil; and crystalline penicillin G, B.D.H., sodium salt, in vials containing 100,000, 200,000, 500,000 or 1,000,000 i.u. A reminder is also given that pure crystalline vitamin B_{12} is available from The British Drug Houses as a solution under the name Anacobin. Anacobin is issued in ampoules each containing 10 microgm. in 1-mil in boxes of three ampoules. Supplies are limited, and it is recommended that the product should be used only for patients who have shown intolerance to liver extracts or who have a personal or family history of allergy.— Burroughs Wellcome & Co., 183 Euston Road, London, N.W.1, announce that the following penicillin products of the company are being reduced on October 10: Tabloid brand penicillin calcium salt (oral) (20,000 international units per product), bottle of twenty; (100,000 i. u.), bottle of ten; and hypodermic (10,000 i. u.) (No. 166), tube of ten; and Tabloid brand penicillin calcium salt lozenge (500 i. u.), bottles of twenty and 50. Credit is being allowed on stocks of wholesalers and retailers on Monday morning, October 10. —May & Baker, Ltd., Dagenham, Essex, state that the increased market price of gold following devaluation of the £ has compelled them to raise the prices of the majority of dosages of the company's two gold products, Crisalbine and Myocrisin (aqueous and oily). — Parke, Davis & Co., Staines Road, Hounslow, Middlesex, have issued a sheet giving a number of discontinued items and price changes to be carried out in their English price list. The price changes affect adrenaline in oil, Anesthone compound tablets, Citralka tablets (effervescent), Citronin, Emollientine and thyroid gland tablets.

STOCK EXCHANGE PRICES

Quotations are the average for the days stated.

£1 unit unless otherwise stated	Aug. 30		Sept. 30	
	s.	d.	s.	d.
Albright & Wilson, ord., 5s. ...	27	9	30	7½
Allen & Hanburys, prefd. ord. 7% cum.	30	0	30	0
Amber Chemical, ord., 2s. ...	4	3	4	4½
Amber Chemical, 5% cum. pref.	23	3	23	1½
Ascotts Pharmacies, ord. stock, 5s.	5	0	5	0
Aspro, ord. stock, 5s.	21	3	21	3
Beecham Group, defd., 2s. 6d. ...	13	1½	14	9
Beecham Maclean Holdings 4% red. cum. pref.	19	3	18	9
Boake, Roberts, ord., 5s. ...	29	6	30	0
Boots (Eastern) "A" pfd. 6% cum.	28	3	27	0
Boots (Western) "A" pfd. ord. (7% non-cum.)	33	3	30	0
Boots Pure Drug, ord., 5s. ...	49	0	50	0
Borax Consold., defd. ord. stock	53	0	57	6
British Alkaloids, ord., 1s. ...	4	3	4	0
British Chemicals & Biologicals, 4% cum. red. pref.	18	9	19	0
British Drug Houses, ord., 5s. ...	7	1½	6	9
British Emulsifiers, 2s.		7½		6
British Glues & Chemic., ord., 4s.	19	0	19	6
British Industrial Plastics, ord., 2s.	4	9	5	0
British Optical & Prec. Eng., 5%	94½%		90½%	
British Oxygen Co., ord. stock ...	92	6	94	0
British Xylonite Co., ord. stock	70	0	75	0
Brotherton & Co., ord.	19	9	20	1½
Burt, Boulton & Haywood, ord.	24	6	24	9
Bush, W. J., & Co., ord. ...	76	0	77	6
Camwal, ord.	19	6	20	0
Cooper, McD. & Robertson, ord.	27	6	27	6
Cow & Gate, ord. stock, 1s. ...	2	6	2	4½
Cow, P. B., & Co., ord. stock, 4s.	4	3	4	3
Crosfield, J., & Sons, 5% cum. pre-pref.	23	9	23	1½
Cussons, Sons & Co., ord. stock 2s.	15	0	15	0
Distillers, ord. stock, 4s.	26	10½	27	6
Dubarry Perfumery Co., ord., 1s.	3	1½	3	0
Dunlop Rubber Co., ord. stock ...	63	0	63	3
Energen Foods Co., ord., 2s. ...	7	1½	6	6
Eno Proprietaries, 5½% cum. pref.	19	0	18	9
Eucryl, stock, 2s.	3	9	3	9
Evans Medical Supplies, ord. stock	33	0	32	6
Field, J. C. & J., ord., 10s. ...	25	9	26	3
Fisons, ord. stock	41	0	27	6
Fisons, 4½% cum. pref.	21	6	20	0
Galloway, P. H., ord., 2s. ...	3	1½	3	6
Gillette Safety Razor Co. shares (no par value)	$49.25		$60	
Glaxo Laboratories, ord. stock, 10s.	360	0	350	0
Glaxo Laboratories, 8% cum. prefd. ord. stock, 10s.	17	6	17	¾
Gossage, W., & Sons, 5% 1st. cum. pref.	23	6	23	1½
Greeff-Chemicals Holdgs., ord., 5s.	11	3	10	7½
Griffiths Hughes Proprietaries, ord.	18	4½	18	9
Hampshire, F. W., stock, 5s. ...	72	3	72	6
Hirst, Brooke & Southon, ord. 4s.	4	7½	4	3
Horlicks, stock, 5s.	27	6	26	10½
Hovenden, R., & Sons, 7% cum. "A" pref.	25	9	26	3
Idris, "A" ord.	37	3	28	9

£1 unit unless otherwise stated	Aug. 30		Sept.	
	s.	d.	s.	d
Ilford, ord. stock, 5s.	23	1½	23	
Imperial Chemical Industries, ord.	43	6	43	
Imperial Chemical Industries, 7% cum. pref. stock	31	3	30	
International Sponge Importers, ord. stock, 5s.	2	9	2	
Kent, G. B., & Sons, 5% cum. ptpg. pref., 12s. 6d.	13	0	13	
Kershaw, A., & Sons, ord., 1s. ...	1	0	1	
Kleemann, O. & M., ord. stock, 1s.	10	9	8	
Laporte, Chemicals, ord. stock, 5s.	20	9	9	
Lever Brothers & Unilever, ord.	43	0	42	
Lewis & Burrows, ord. stock ...	26	0	26	
Lewis & Peat, ord., 1s.		10½	1	
Liebig's Extract of Meat, ord., £5	310	0	310	
Macleans, 4% red. cum. pref. ...	19	0	18	
Mellin's Food, 6% cum. pref. ...	5	3	5	
Milton Antiseptic, ord., 10s. ...	19	6	20	
Mono Containers, 5s.	14	6	15	
Monsanto Chemicals, ord., 5s. ...	50	0	52	
Pears, A. & F., 5% deb. stock, irred.	115%		115%	
Pest Control, ord., 5s.	8	3	8	
Potter & Clarke, ord., 1s. ...	2	0	2	
Reckitt & Sons, ord. stock ...	102	3	103	
Rolls Razor, prefd. ord., 10s. ...	20	0	20	
Sangers, ord. stock, 5s.	28	0	23	
Sanitas Trust, ord., 10s.	33	0	31	
Savory & Moore, 5½% 1st red. cum. pref. stock	21	9	21	
Sherley, A. F., & Co., 8% cum. prefd. ord.	21	9	22	
Smith & Nephew Associated Cos., ord., 4s.	15	3	16	
South African Druggists, ord., 5s.	14	6	18	
Southalls (Birmingham), stock, 5s.	38	9	41	
Spa Brushes, ord., 2s.	3	10½	3	
Sternol, 8% cum. ptpg. prefd. ord., 10s.	9	0	10	
Stevenson & Howell, ord. stock, 5s.	24	9	22	
Taylors, Cash Chemists, London, 6% cum. pref.	25	3	23	
Taylors, Cash Chemists, Trust, 6% cum. pref.	23	6	23	
Taylors Drug Co., 7% "A" cum. pref.	32	0	28	
United Glass Bottle, ord. stock ...	69	6	70	
Veno Drug Co., 12% cum. prefd. ord.	24	0	27	
Virol, ord.	74	4½	72	
Viscose Development Co., ord. stock, 5s.	8	6	9	
Vitamins, 1s.	3	10½	3	
Wesley, Harold, 5s.	11	1½	13	
Whites (Timothy) & Taylors, ord., 5s.	31	6	33	
Whites (Timothy) & Taylors, 7½% cum. pref.	31	0	30	
Wright, Layman & Umney, 7% cum. pref.	27	6	27	
Yardley & Co., ord., 4s.	52	6	55	
Yardley & Co., 2nd pref. (cum.)	22	0	23	

POISONS LAW, 1935-49

0. Extensions, Exemptions and Relaxations

HE Poisons Rules extend the application Part II of the Pharmacy and Poisons ct, 1933, beyond the specific provisions of e Act, which, however, provides for such odification by Rule. For example, Rule extends the labelling provisions of Sec- on 18 (1) (*c*) and Rules 17 to 22 to ction 20 (wholesale) sales including dustrial poisons (but still exclud- g export). The unduly comprehensive haraceter of the Rule as applied to oisons delivered in bulk is then mitigated y relaxing the labelling requirements pplicable to industrial poisons listed in e Second Schedule. The added restric- ons are designed to act as safeguards gainst accidents. Rule 5 (2) simplifies equirements as to character of the poisons labelling the outside of the package with ords indicating the dangerous properties the poison. This Rule is exceptional in aving the wording of the warning to the iscretion of the supplier. The fact that either the Rule nor the Second Schedule as been amended is a tribute to the effec- ve co-operation of industrialists with the oisons Board during the devising of the 935 Poisons Rules.

Third Schedule Exemptions

The Act and Rules apply also to articles hich contain potent poisons but which re free from danger to the public owing their inaccesibility in the finished pro- uct. Such articles in everyday use com- rise Group 1 of the Third Schedule, hich are completely exempted by Rule 11 rom the application of the Act. This list f "Ex A. articles" has also withstood the est of time by remaining virtually un- nodified. The only amendments are the emoval of "polishes" from Group I General) to Group II (Special) exemptions, nd the replacement of "inks" in the vider sense by "marking inks" and printers' inks" in Group I. By contrast Group II of the Third Schedule relates to ubstances with medicinal, industrial and lomestic uses and these "Special Exemp- ions" are highly important to many lifferent trades including the drug trade.

The utility of "special" exemptions in reeing trade from unnecessary restrictions is nade evident by the succession of amend- nents from 1937 to 1949. Thus dinitro- cresols and dinitrophenols (included in the First Schedule to stop indiscriminate use in "fat reducers") have important industrial uses and hence special exemption was soon accorded to "substances not being preparations for the treatment of human ailments." Other special exemptions in 1937 of industrial importance relate to barium salts (Witherite), tar (coal or wood), and potassium hydroxide (in batteries). Polishes removed from Group I to Group II caused a series of consequential changes in respect of nitrobenzene, oxalic acid, metallic oxalates and antimony chlorides. The addition of amphetamine (and derivatives) to the First Schedule in 1938 was counteracted by exempting inhalers having a poison absorbed in inert solid material. The Customs concession in regard to surgical spirit containing 0.015 per cent. brucine was followed by addition to Group II exemptions in 1942 and 1947. In general the special exemptions of the Third Schedule have proved of great service in removing from poisons law many articles in domestic use such as soaps, hair lotions, fumigants and smelling bottles. In particular Group II exemptions overcome incongruities such as classifying ipecacuanha as a poison on account of its emetine content.

Percentage limits for exempting an article from the First Schedule or the application of the Act have caused little trouble, apart from borderline cases. Ex S.1 and Ex A. limits require careful calculation and checking by experts, owing to the importance of dilutions in practice affecting the application of poisons law. Such limits relate to the actual content of poison in terms of its molecular weight. Any additional specification, such as "anhydrous" in relation to morphine, is a superfluity. Any interpretation to the contrary (such as that the Ex S.1 limit for codeine should be based on the codeine salt in tab. codein. co.) can only result in endless confusion.

Displays for Small Shops. — "Selling Through Display" by Arthur Symes (H.M. Stationery Office, price one shilling), is an illustrated booklet produced by the Council of Industrial Design with the intention of showing that well-designed window and interior displays can be as effective in smaller shops as in larger stores of the departmental kind.

IMPORT LICENSING RELAXATIONS

In a statement in the House of Commons on September 29, Mr. Harold Wilson (President of the Board of Trade) announced that a large number of commodities were to be put on Open General Licence from October 5 when imported from countries where no loss of gold or dollars would be involved. Goods to which the import licensing relaxation applies include:—

Group 1.—Ginger, preserved; herbs (dried mint and sage); honey; hydrolysed protein; isinglass; lactose; liquorice blocks, paste, powder or sticks; malt extract; oils, natural (almond, apricot kernel, hazel nut and peach kernel); tamarinds; vinegar.

Group 2. — Bentonite; diatomaceous earth; metals (arsenic, bismuth, mercury, etc.); talc, steatite and soapstone, whether ground or not.

Group 3.—Beeswax. Essential oils (natural but not terpeneless) excepting bergamot, birch tar, bois de rose, lemon, peppermint (*arvensis* and *piperitai*, petitgrain, pimento, spearmint, wormseed; floral concretes and absolutes, including carnation, cassie, cistus (broom), clary sage, costus, gardenia, hyacinth, jasmine, jonquil, labdanum, lavandin, lavender, mignonette (*reseda*), mimosa, narcissus, oak moss (mousse de chene), orange flower, orris, rose, tuberose, violet and violet leaf. Gums and resins, including: benzoin, copal (Pontianak or Manila), frankincense, and karaya; liquid resin; perfumery materials; including ambergris; castoreum, civet, and musk; pine tar.

Group 5.—Agar ammonium perchlorate; bromine and bromides; camphor, natural; citric acid; cochineal; cream of tartar; drugs, raw or simply prepared, and the like; drugs, medicines and medicinal preparations, manufactured or prepared; henna leaves; lead acetate and nitrate; magnesium chloride; monosodium glutamate; nicotine and nicotine sulphate; potassium bromate; potassium chlorate; potassium ferricyanide and ferrocyanide; potassium perchlorate; pyrethrum flower and extract; roots (barbasco and derris); sodium ferrocyanide; squill, red (bulb, powder or extract). Synthetic organic chemicals; analytical reagents, other fine chemicals and chemicals manufactured by fermentation processes, as enumerated in the Board of Trade lists issued under Section I of the Safeguarding of Industries Act, 1921, except (a) synthetic organic d stuffs, colours and colouring matters i ported for use as such; (b) orga intermediate products imported for t manufacture of dyestuffs, colours a colouring matters; and (c) the followi chemicals: Acetic anhydride; acetic a (glacial and synthetic); monochlor-ace acid; butyl acetate and alcohol; ethyl a tate, lactate and silicate; ethylene glyc glycol esters and ethers; iso-butyl alcoh lactic acid; triethanolamine. Tarta acid.

Group 11.—Cotton wool. Dressings, s gical and medical (other than piece goo the following: Bandages (cotton or a hesive); gauze tissues; lints; plaste adhesive; towels, sanitary, and substitu therefor. Electro-medical apparatu furniture, aseptic, hospital. Medical, s gical and dental appliances and requisit the following: Amalgams, dental; ar supporters for feet; articulators; artific limbs; artificial teeth, crowns and facing cements, dental; chairs, dental, and pa and accessories; crutches; engines, denta fracture appliances in the form of spli and similar supports; gags, mouth; mirro mouth; spittoons; spotlights, electri trusses; vulcanisers. Medical, surgical a dental, veterinary and dissecting instr ments (other than optical and scienti instruments chargeable with duty und the Safeguarding of Industries Act, 192 as extended and amended) and pa thereof. Thermometers, clinical; *x*-r apparatus, including tubes.

Group 12.—Blankets and pads, electr cally heated; shavers (electrical).

Group 15.—Perfumery (excluding esse tial oils) and perfumed spirits. Sun glass and lenses therefor. Toilet preparatio (whether medicated or not) excluding soa Toilet requisites, not containing precio metals or polystyrene, and not bei articles made wholly or mainly of potte or of glassware with applied decoratio the following: Combs; curling tongs an irons (non-electric); denture bowls; ey brow tweezers; lipstick cases; lotion pads manicure sets and parts thereof; nail cli pers, nail cleaners, nail files and na polishers; powder bowls and boxes; powd puffs and parts thereof; rouge pad safety razors (non-electric).

Group 16.—Cinematograph equipmen the following: Cameras, motion (motor c

ing driven), whether incorporating nd recording apparatus or not; film-veloping machines; film-editing achines; film printers; mobile camera uipment; projectors and projection uipment of all kinds; screens; studio lighting equipment. Deaf aids. Photographic materials: unexposed sensitised paper, cloth, plates and film. Polishes of all kinds. Razor blade and sharpener holders. Teats and valves, rubber. [Full list in "Board of Trade Journal" October 8].

SCIENTIFIC AND INDUSTRIAL RESEARCH

HE report for 1947-48 (with a review of e war years) of the Department of ientific and Industrial Research, recently blished, deals from several aspects with e increasing need of speedily applying, a technical scale, new discoveries of ence. To this end the Department has larged its central intelligence and in-rmation division, which now falls into ree sections. The first surveys the re-arch facilities available, and calls tention to directions in which expanded search facilities appear desirable, and new fields for research. It maintains ntact between the Department's own tablishments and the research associations d universities, etc. Secondly, the divi-n assists inquirers on the organisation research, and on sources of technical formation, etc. Thirdly, the division ts as the co-ordinating centre for publi-tion policy.

A special committee was appointed to ex-mine the arrangements for meeting the eds of those firms which were unable to aintain their own research staffs. There as doubt about the reality of the demand Britain for organisations of the type the Mellon Institute and similar bodies the United States, where "sponsored" search can be carried out, the committee und. It seemed probable that any ch demand would be for confidential evelopment work rather than research, nd American experience suggested at the facilities of the Mellon nd similar Institutes were mostly used y large firms possessing effective research stablishments of their own, rather than y small firms. The Department is in lose touch with institutes of that type hich have been launched in this country.

The Chemistry Research Board proposed at the selected fields of research for e Chemical Research Laboratory should clude coal tar, corrosion of metals, micro-iology, plastics and macromolecules gen-rally, the study of new techniques, and norganic chemistry of semi-rare metals.

The Department is satisfied that the esearch association is a sound and effective way of bringing science and industry together. Financially that co-operation should take the form of annual grants and special capital grants.

Encouragement to industry to conduct research itself or to support its research associations or research in universities, etc., is given by the Finance Act, 1944, which allows such expenditure to be treated as an expense for income tax purposes. Grants made to research associations in 1947-48 amounted to £950,000. Eighteen new associations were created during the period 1938-48. Grants made to students and research workers in 1947-48 amounted to £204,000.

The chief factors limiting development have been shortage of staff and lack of suitable buildings. For some time to come the Department "must endeavour to meet the most pressing demands made upon its services and leave undone many projects which are worthy of attention but less urgent at the present time."

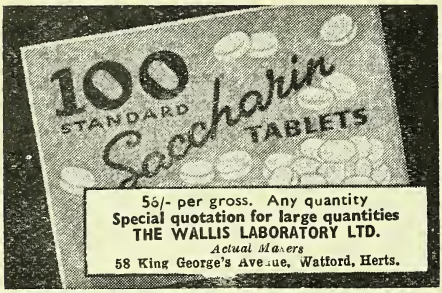
Copies of the report may be obtained from H.M. Stationery Office, York House, Kingsway, London, W.C.2, price 2s. each.

FIFTY YEARS AGO

Students' Prospects

(*From the C. & D., October* 7, 1899)

NEARLY a century ago, when the well-known surgeon Abernethy went to give the lecture with which he commenced his course, he looked round on the large number of students assembled and said in a sorrowful tone, "God help you all! What will become of you?" He could not see how work could be found for so many, and there are some who have a similar feeling now with regard to pharmaceutical students—who have misgivings with regard to the future of pharmacy, and fear that the work of the pharmacist will disappoint those who enter upon it. Now, if I believed this, I should find it difficult to stand here to-day and congratulate those who are commencing their instruction at this school.—*Dr. D. J. Leech, at the opening of the School of Pharmacy,* 1899.



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VOL. CLII OCTOBER 8, 1949 No. 3633

Organised Research and Industry

A NUMBER of ideas are common to two official reports — of the Department of Scientific and Industrial Research (p. 497) and of the Advisory Council on Scientific Policy (p. 483) recently published. Both stress, for example, the importance to the nation of speedily applying to industry the results of scientific research. In a field where, as in the pharmaceutical industry, new developments may occur almost overnight, the principle is especially important. It cannot be applied unless, as the Advisory Council points out, there are in industry a "sufficient number of men adequately trained" to apply the discoveries.

The D.S.I.R. in its report records practical help given by the Department towards research in technical industry in Britain. Important has been the development of its intelligence division, which not only advises on the organisation of research but acts as liaison between industry, Government and the universities.

The Department is a strong protagonist of research associations within industries, but the organisation of such an association within the pharmaceutical industry may be fraught with particular difficulties, since so many companies within it are well equipped for research on their own problems. Nevertheless duplication of research work occurs in the industry, as was pointed out recently by the chairman of the British Pharmaceutical Conference. Some of this, at least, might be eliminated by an association for the whole industry.

Nitrous Oxide Again

THE following paragraphs appear in the October 1 issue of the "Lancet"—that is, October 1 in the present year, the year of grace 1949 A.D. We stress the date, because the social historian of the future, searching through the files of newspapers, may become confused to find almost the identical words of the second paragraph in a journal of 1939, or 1929, or 1919—too many times, in fact, since nitrous oxide was first used for anæsthetic purposes.

> In Dublin district court last week, the judge rejected the prosecution's case against a house-surgeon charged with having unlawfully killed a patient who died while under an anæsthetic.
>
> At earlier hearings and in a previous statement the house-surgeon had testified that on May 30 she decided to administer nitrous oxide and oxygen to an outpatient for the purpose of operating on a septic thumb. She, the house-surgeon, noticed that the oxygen cylinder on the apparatus was empty, and she asked a nurse to get a full cylinder; she did not check the cylinder brought by the nurse but tightened it up and turned on the nitrous oxide fully and the oxygen partly. She noticed that the patient was becoming cyanosed, and she then turned the nitrous oxide off and the oxygen fully on. The patient became still more cyanosed, and it was found that both cylinders contained nitrous oxide. Oxygen was administered from a fresh cylinder, two intracardiac injections were given, and artificial respiration was begun and was continued for some time, without success. In cross-examination the house-surgeon said that she knew that one or other of the nitrous oxide or oxygen cylinders had a white top, but she did not know which. For the firm supplying the cylinders it was stated that those containing nitrous oxide and oxygen were each distinctively marked, but nothing in the apparatus used was to prevent interchange of the two cylinders.
>
> District Judge Mangan found that the State had not established that the house-surgeon had failed to take care and that death had been due to that failure. There had been default by the accused, but the prosecution had not shown that death had resulted from the default. The possibility of death from other causes had not been excluded; there was no evidence that a post-mortem examination had been made.

Yes, the cylinders are distinctively marked. There are distinctive markings for all gases issued in cylinders. Only it is a curious fact that the greatest contrast, possibly, is reserved for such gases as methane (red) and ethylene (mauve) which are not used in the operating theatre. Nitrous oxide goes out to users in a black cylinder, oxygen in a black cylinder with a white

top. In use, the white top of the oxygen cylinder does not become any whiter, and the black paint—what that dull surface has picked up in handling is enough to keep at a respectful distance any surgeon or anæsthetist who wants to keep his hands uncontaminated. A nurse or a porter is usually available to do the dirty work.

In the House of Commons, in October 1944, the then Minister of Health (Mr. H. U. Willink) stated that the British Standards Institution had appointed a Committee to consider what measures to adopt to distinguish more readily between the various medical gas cylinders. In 1946 a British Standard Code of Practice was issued. It kept to the markings, black for nitrous oxide, black with white nozzle for oxygen. Not much help there in "distinguishing more readily" between the two gases most liable to be confused!

But, as the Dublin report adds, "nothing in the apparatus used was to prevent interchange of the two cylinders." According to the Code, "this object can only be fully achieved by the introduction and universal use of a new type of cylinder valve, together with consequent changes in the apparatus that is attached to the cylinders. Until such time as this can be brought about, the risk of a wrong connection must remain."

It is now five years since the Minister's Parliamentary reply, three from the issue of the Code of Practice, and deaths are still occurring. Even a new aircraft has been known to take wing within two years of the blue-print being passed. Must the "risk of wrong connection" continue? Is it not more than ever urgent that medical practitioners engaged in the practice of anæsthetics should be enabled to "distinguish readily" between the various gas cylinders?

Food Labelling Progress

An account of its stewardship since it took over a major share of the control of the advertising, labelling and composition of food (it was formerly a responsibility of the Ministry of Health) has been given in a report issued by the Ministry of Food.

The report is rather unusual in that in addition to reviewing the progress made, it includes the text of many regulations and thus forms, with its appendices, a reference manual on developments of the law relating to food composition and food labelling, and a useful guide to food manufacturers, local authorities and the public.

Describing some of the improvements in food labelling, the report recalls misdescriptions that were current until comparatively recently—common salt described as "a food in itself," a gravy thickener as having "all the B vitamins," dried herbs labelled "Vitamins A, B and C," foods principally of flour claimed as quickly restoring to health "infants in the last stage of emaciation," foods offered as "a certain remedy for consumption," or claimed to "expel disease for ever." The Ministry has taken action to eliminate all those. It has virtually abolished the description "digestive" applied to foods with a tendency to cause indigestion, such as flour and tea, and "tonic" applied to products not containing "a reasonably significant amount of a therapeutic agent." It has exerted pressure to secure that, where a food includes two or more ingredients, the one present in greater quantity should be named first (e.g., "malt extract and cod liver oil," not "cod-liver oil and malt extract"). "Similarly it is misleading to claim," states the report, "for a few tablets in a small container the nutritional qualities which could be justified only when the food is consumed in a much greater quantity than is provided in tablet form." That consideration led the Ministry to take the advice of the Medical Research Council as to vitamin and mineral claims. The result is incorporated in Appendix F of a Code of Practice, the effect of which is to ensure that the amount of a food taken will make a significant contribution to nutrition. No claim is admitted that a food maintains, promotes or restores health or acts as a therapeutic agent unless it can be justified by reference to the composition of the food.

Thus in four years, "the foundation has been laid of a complete reform in food advertising and labelling."

SCIENCE SESSIONS

(*Concluded from* THE CHEMIST AND DRUGGIST, *October* 1, *p.* 473)

Methyl Compounds in Galenicals

By H. E. Brookes and H. K. Johnson

[Abstract]

Methyl alcohol (in traces) in the galenicals prepared from certain vegetable drugs, which has been previously recorded, is of interest because the Board of Customs and Excise prohibits its presence in rebateable preparations. The authors' interest in this matter was renewed recently, because of the discovery of methyl alcohol in a production batch of concentrated compound infusion of gentian. The Customs and Excise authorities maintained that, with the proportion found (0.21 per cent.), the preparation must be considered to contain industrial methylated spirit. Since methylated spirit is not used in the manufacture of concentrated compound infusion of gentian the batch and later batches made with pure alcohol were tested for methyl alcohol and compared with samples of material marketed by other pharmaceutical houses. The results substantiated that methyl compounds can be present in galenicals prepared according to the process laid down in the British Pharmacopœia. In addition to the pre-formed methyl alcohol, the tests indicated that methyl alcohol is produced during assay by the method of the British Pharmacopœia. The authors recommend that the test for methyl alcohol should be made on a distillate from neutral solution. As considerable frothing impedes distillation of many galenicals, especially senega, unless acid is present, a correct alcohol content should be determined by the method of the British Pharmacopœia, and the methyl alcohol test carried out separately, distilling from neutral solution.

Discussion

Dr. N. Evers hoped the authors would go further and discover the origin of methyl compounds in galenicals.

Dr. G. E. Foster said he had met the problem, having been accused of making galenicals with industrial spirit. He doubted whether, in the courts, a judge would accept the authority of the Government analyst against the manufacturing records produced by a manufacturer.

Dr. W. Mitchell thought the authors' results would actually be welcomed by the Government chemists, who were themselves bound by the letter of the regulations. He doubted whether the records of a manufacturer would be so readily accepted as Dr. Foster had suggested, since no records could cover the possibility of accidental mixing. In communications with the Customs and Excise authorities he had been given the figure of 0.03 per cent. as the maximum permitted content of methyl alcohol in a galenical. His company had been testing for methanol in senega preparations of its own and others' manufacture, but so far had found nothing so high as 0.1 per cent. He recommended the chromotrophic test as confirmation of the B.P. test. "You don't test for impurities you know you haven't deliberately added," said Dr. Mitchell, amid laughter.

Replying, Mr. Brookes said his company had obtained little redress from the Custom and Excise authorities, who regarded themselves as the ultimate authorities in methanol determinations—a situation Dr. Mitchell had confirmed. He was pleased to be given the Department's maximum figure (0.03 per cent.).

Pharmacology of *para*-Aminosalicylic Acid

By E. M. Bavin

[Abstract]

Most of the studies on the pharmacology of *p*-aminosalicylic acid have been carried out in Sweden and America. In the work described the acute and chronic toxicity of the drug by various routes of administration in the strain of mice used in the laboratory was first determined, together with the pathological effects of prolonged administration. Blood levels and rate of excretion in mice were studied and the possible effect of 4-carboxy-phenylmethanesulphonanilide (Caronamide) in retarding excretion was investigated. The chemotherapeutic action on *Mycobacteri-*

um tuberculosis in mice was investigated. Prolonged oral and subcutaneous administration to mice was found to produce some pathological effects on the liver and kidney. A method of estimation in blood and urine is described and blood levels curves are given in mice and man. Caronamide was found to have no effect on the blood levels in man, and it appeared to have no hypoprothrombinæmic or antipyretic effect in rabbits. The compound exerted a protective effect in mice infected with *M. tuberculosis* H37RV, but was less effective as an antitubercular drug than streptomycin. (From the pharmacological laboratory, British Chemicals and Biologicals, Ltd., Loughborough.)

Pyrogen from Various Sources

By D. W. Wylie and J. P. Todd

[Abstract]

Whether bacteria in general produce the same pyretic substance or each bacterial species a specific pyrogen is not yet known. During our investigation of pyrogen we have discovered several variations, such as different types of fever curves following injections of modifications of the same culture, and variations in stability of pyrogen from different bacterial sources, when heated at 120° C.; these suggest that different pyrogens exist. The results show that certain bacteria probably produce two pyretic substances, one of which, in the viable culture, is dissolved in the medium and stimulates the single-peak fever of the immediate reaction type, and the other is contained mainly in the bacterial cell and stimulates the single-peak fever of the delayed reaction type, a mixture of both causing the double-peak fever. *Proteus vulgaris* and *P. fluorescens* can produce a volatile depressant substance, which either lowers the body temperature to below normal, or prevents the pyrogen from causing a rise in body temperature. This depressant causes general paralysis if injected in sufficiently large doses; in smaller quantities the most obvious effect is the loss of appetite. It has been shown that any pyrogen test followed by the rabbits refusing to eat for a few days should be examined for other effects of the depressant substance, and should be repeated, taking care to heat the solution to between 30° and 40° C. for about 10 minutes before injection. 95 per cent. of the pyrogens of *P. vulgaris, Ps. æruginosa* and *B. subtilis* is destroyed after two hours' heating at 120° C. Further investigation would b of little value unless carried out on th pure pyretic substances isolated from var ous bacterial sources. (From the pharmac department of the Royal Technical Co lege, Glasgow.)

The paper was read by Dr. Wylie.

Dr. Evers said the subject appeare more complicated than had originally bee thought. He suggested the authors migl try chromatographic methods in isolatin the pyretic substances.

To Professor H. Brindle it seeme important that note should be taken, i testing for pyrogens, of the depressant sul stance detected by the authors. Had the tried distilling the cultures to make ce tain that the substance was volatile?

Dr. G. E. Foster asked if the autho could offer any confirmation of a sugge tion put forward at the Torquay Confe ence in 1947 that pyrogen was destroye on keeping. In tests his laboratory ha been asked to make on the pyrogen co tent of certain substances, one substanc had caused a marked fall of temperature on investigation it was found that the sul stance contained salicylate—an antipyreti Had the authors made any attempt to de tect pyrogens in antipyretic substances?

Mr. G. E. Shaw, Runcorn, said th author's paper linked up with work don by one of his own colleagues on scou in calves, a condition associated with toxæmia caused by *B. Coli.* They ha found that a toxic substance could b obtained on extraction of a culture of o ganisms that did not come out into th culture medium. It was present only i small amounts and had been found to co tain about 15 per cent. carbohydrate. I produced a temperature reaction in calve with a characteristic gastro-intestina lesion; and killed rabbits, guinea pigs an mice. The compound would also act a a feeble antigen. Against the toxin a pro tective antiserum could be prepared. H asked the author whether pyrogen cause a form of antigen-antibody reaction o whether the pyrogen produced its effect a a pure chemical. Could the author giv figures for (a) total and (b) viable count of the culture used?

Mr. E. S. Myers, Bradford, asked if th authors had compared their temperatur curves with those on patients' charts, an pointed out that a rise in temperatur might be due to the patient's conditio rather than to the transfusion solution.

Mr. E. H. Reid, Dagenham, asked whether the double-peak fever from *B. prodigiosus* occurred before or after autoclaving.

Mr. G. R. Milne, Glasgow, reported that no trouble from pyrogen was encountered in handling serum in the blood-transfusion service, but it was quite another matter with blood and some other products. In his experience the reactions encountered occasionally in the use of these substances were not adequately charted.

In his reply, Mr. Wylie said that the depressant substance was not of direct concern in pyrogen research, and only necessary points had been investigated. Dr. Todd and he were satisfied that the substance could quite easily be distilled off. Certain of the recorded results appeared to upset the quantitative test, but the test had still been found accurate provided that only the first quarter was regarded. No tests had been carried out on antipyretics, but both the present paper and an earlier one in 1948 had a bearing on the life of pyrogen. He could provide figures for total and viable counts but to him they did not seem important in the investigation. He did not consider pyrogen caused an antigen-antibody reaction but it would be necessary to wait till the substance was isolated. *B. prodigiosus* also gave rise to a substance, which passed into the culture medium.

Chromatographic Separation of Ergot Alkaloids

By G. E. Foster, Miss J. Macdonald and T. S. G. Jones

[Abstract].

Using the technique of Consden, Gordon and Martin, and employing *n*-butyl alcohol—acetic-acid—water mixture as solvent we investigated the behaviour of ergot alkaloids on Whatman no. 1 paper. The alkaloids gave little or no colour with the ninhydrin reagent but their positions on the paper were readily detected by their fluorescence in ultra-violet light. It became immediately evident that the water-insoluble alkaloids, of the ergotoxine and ergotamine groups, passed down the paper with the solvent front. However, separation of the water-insoluble from the water-soluble alkaloids occurred. Ergometrine and ergometrinine passed down the paper at different rates and consequently could be separated and identified. A technique for the separation and identification of ergometrine and ergometrinine, when present in mixtures of total ergot alkaloids, has been elaborated, and extended so that approximately quantitative results may be obtained. In this way, the ergometrine contents of samples of ergot have been estimated. The changes which take place in injection of ergometrine maleate, B.P. 1948, during manufacture and storage have been studied chromatographically, and it was found, for example, that during heat sterilisation some conversion of ergometrine to ergometrinine occurs. On storage some hydrolysis giving rise to lysergic and *iso*-lysergic acids takes place. By preparing chromatograms from the hydrolysates of water-insoluble ergot alkaloids, identification tests for individual alkaloids have been developed. (From the Wellcome Chemical Works, Dartford, and the Wellcome Research Laboratories (Chemical Division), Beckenham).

Discussion

Dr. N. Evers said that chromatography had been "rearing its head" in a number of papers. He congratulated the authors on devising an ingenious method of hydrolysis of the alkaloids of ergot and separation of the products chromatographically, and hoped that a uniform nomenclature of ergot alkaloids would be agreed upon soon.

Dr. F. Hartley, London, said that in his laboratories, 2 amino propanol had also been found among the hydrolysis products of ergot alkaloids and that the compound differed in its chromatographic behaviour from the other products. He thought that the observation of this compound might assist in the examination of ergometric maleate injection.

Professor H. Brindle, Manchester, reported difficulty in extracting the alkaloids in chromatographic work he had done using paper and silica gel. He had further found that while the results of studying the deterioration at *p*H 3 of ergot alkaloids by biological and colorimetric methods agreed, at *p*H 5 or above they differed widely. He thought, therefore, that there was possibly a difference in type of the deterioration at different *p*H values.

Dr. W. Mitchell, London, said that the paper was important as being the first dealing with chromatography applied to the separation of alkaloids. He asked whether ergometrine and ergometrinine

could be distinguished by the colour of the fluorescence, whether an allowance should be made for the size of the spot, and whether long exposure during the chromatographic process caused the ergometrine to be converted. He thought that the usefulness of the method was limited by the length of time it took.

Dr. R. E. Stuckey, London, said that he, too, had experienced difficulty in extracting ergometrine from paper, and asked whether the author was sure that the fluorescence was not caused by peptisation of the paper. He suggested that the chromatograms should be run as a band of ten or more spots.

Dr. G. E. Foster, Dartford, replying, thanked Dr. Hartley for his suggestion. To Professor Brindle he said that he had prepared a series of injections of ergometrinine, adjusted to *p*H values between 3 and 6, and had obtained chromatograms from them. He found that as the acidity rose the amount of ergometrinine and lysergic acid in the solutions decreased. He suggested that this might explain the observations Professor Brindle had made. He told Dr. Mitchell that the colour of fluorescence of the ergometrine and ergometrinine was the same.

Professor Brindle added that he had tried increasing the amount of alkaloids by developing bands, but without advantage.

Determination of Benzene Hexachloride

By W. H. C. Shaw

[Abstract]

The object of the work was to provide a simple method for the determination of benzene hexachloride in the presence of the excipients likely to be encountered. Since the quality of the active agent is capable of independent analytical control, it was considered sufficient that the method should determine total benzene hexachloride (i.e., not to be specific for γ-isomer). The main criterion was that it should be effective in the presence of relatively large amounts of diluents. Methods suggested are based on alkaline dehydrochlorination using monoethanolamine or alcoholic potassium hydroxide. The potassium hydroxide method is, in general, considered the more attractive, since the reagent is readily available and the reaction proceeds rapidly in alcohol even at room temperature. The monoethanolamine method is preferred when it is desired to avoid sapo fication of oils and fats. (From pharm ceutical research and service laboratori Imperial Chemical Industries, Ltd., Bla ley, Manchester, 9).

Discussion

Dr. D. C. Garrat, Nottingham, ask what was the degree of variation in the sults and whether the results shown w typical. Mr. D. E. Seymour, Welw suggested that tertiary bases might pr of use in the problem.

Mr. Shaw, in reply, said that the ac racy in the more concentrated solutic was ± 5 per cent., but of the less conc trated solutions, or emulsions, was ± per cent. The content in the more conc trated solutions, but not in the less dil solutions or emulsions, was known to t analyst. To Mr. Seymour he said that py dine had no action.

Sulphone Group in Hypnotics

By M. A. Ghamrawi and F. Said

[Abstract]

Barbituric acids substituted at position with alkyl sulphone groups such as ethylsulphonylbarbituric acid and 5:5-d ethylsulphonylbarbituric acid were pr pared and their hypnotic potency co pared with that of diethylbarbituric ac Like all monosubstituted barbituric aci 5-ethylsulphonylbarbituric acid was void of hypnotic activity. The introdu tion of sulphone groups into the molec of Veronal decreased its activity a increased its toxicity. (From the Chemist Research Laboratories, School of Pha macy, Faculty of Medicine Fouad 1st Ur versity, Cairo, Egypt).

Dr. Evers, introducing the author, sa that the paper was particularly welcome being from an overseas visitor.

Discussion

Dr. F. Hartley said that only, pr haps, by approaches such as the author h made could light be thrown on the rel tion between chemical constitution a pharmacological activity of compounds. H asked whether the introduction of t ethyl sulphone group affected the dissoci tion of the molecule, and at what rate t acid hydrolysis of the molecule could b effected. Mr. D. E. Seymour asked wh method had been used in combining t sulphone group and barbituric acid. A one of the compounds mentioned was a su phonamide, had the compounds been e

amined for other properties? Dr. K. Bullock asked if the differences in action noted could be related to differences in solubilities, or in *p*H value of the compounds' solution.

Dr. F. Said, in reply, told Dr. Hartley that distribution coefficient determinations had shown that the more sulphone groups within the molecule, the more soluble in lipoids and less soluble in water the compounds were. The controlled biological tests had been conducted in the physiological department of the Cairo University on dogs. Induction of sleep in the animals receiving the compounds had been taken as an indication of hypnotic activity. The compounds had not been investigated for other biological activities.

For the first part of the Friday afternoon science session, Mr. B. A. Bull (chairman of the Conference, 1946-47) deputised for Dr. Evers.

Bacterial Survival in Low Moisture Systems

Part 1. Organisms in Spray-dried Powders

By Kenneth Bullock, Winifred G. Keepe and E. A. Rawlins

[Abstract]

The behaviour and enumeration of bacteria in powders, pastes, and oils—systems of relatively low moisture content—have not been widely investigated. The work described in the paper is a study of the effects of environmental conditions on micro-organisms in a spray-dried powder, or in such a powder suspended in oil. It was essential that the test organisms should be non-pathogenic since some of the dried culture might be inhaled. *Bacillus subtilis* appeared the most obviously satisfactory non-pathogenic sporing organism. To find a suitable non-sporing organism proved more difficult. *Bacterium lactis aerogenes* has certain suitabilities, but over 99 per cent. of the bacteria are usually destroyed on spray-drying. It was used, however, in the absence of an organism known to be more satisfactory. The technique of performing viable counts using graduated pipettes with roll-tubes has been examined and the accuracy of the method assessed by statistical analysis. It is shown that satisfactory viable counts of spores of *B. subtilis* in suspension or in powders can be obtained. The spreading surface growth of the organism has been shown to have no significant effect upon the count; roll-tube counts may be performed satisfactorily in its presence. If even suspensions of *B. subtilis* spores are spray-dried the viable organisms are evenly distributed in the resultant powder. If even suspensions of *Bact. lactis aerogenes* are spray-dried the viable organisms are not evenly distributed in the powder as taken from the spray-drier, but an even distribution can be obtained if the powder is thoroughly mixed by mechanical means. The effect of storage on the viability of the organisms in peptone powder was examined. The viable count of *B. subtilis* was found to undergo no significant diminution after six months' storage, whereas the viable count of *Bact. lactis aerogenes* fell rapidly, most of the organisms dying within the first few days. It is concluded that spray-dried powders containing spores of *B. subtilis* are suitable for examining the effects of environmental conditions on the spores, but that the use of powders containing organisms, such as *Bact. lactis aerogenes,* showing a high mortality on spray-drying, involves greater difficulties. (From the Department of Pharmacy of the University of Manchester).

Miss Keepe read the paper.

Discussion

Dr. K. R. Capper, London, pointed out that a greater number of cells had developed from medium of lower food value, and asked whether the authors had tried the use of yeast extract and trace elements in the medium. Dr. I. Michaels congratulated the authors on the application of statistical analysis to their results and on the use of a volume pipette in place of a drop pipette. Mr. Milne, Glasgow, asked what was the moisture content of the powders dried under phosphorus pentoxide. He suggested the work would have an application in the storage of dried serum. Mr. R. M. Savage, Barnet, asked if the work had been extended to anærobic sporing organisms. Dr. Bullock said that statistical analysis had not enabled him to come to conclusions that could not have been arrived at by simple inspection of the figures. Statistical analysis might, however, be necessary in later work. The moisture content of the powder dried over phosphorus pentoxide had been described in previous work. The survival of anærobic organisms had not been investigated, but the possibility of spraying in an atmosphere of nitrogen had been considered.

Sodium and Calcium Glycerophosphates

By J. S. Toal and J. I. Phillips

[Abstract].

The object of this paper is to draw attention to the unsatisfactory position existing in which commercial supplies of glycerophosphates, although issued as complying with the standards of the British Pharmaceutical Codex, do not satisfy the full requirements of the monographs. To clarify this position the authors produced some pure salts, following factory practice, and investigated them. The following have been described:—A method for the determination of the α-isomer of glycerophosphoric acid; the preparation and properties of pure crystalline α- and β-sodium glycerophosphate; and the isolation of "an impurity," occurring from a side reaction in the primary combination and which seems to approximate to a diester. Two types of α-calcium glycerophosphate have been prepared—a dihydrate, which is unstable in water, and a monohydrate, which is stable. Differences in the physical behaviour of the two hydrates of the calcium salt are reported, and the preparation and properties of β-calcium glycerophosphate have been described. The authors have suggested amendment to four B.P.C. monographs.

The authors thank particularly Dr. D. E. Palin, of Imperial Chemical Industries, Ltd., research department, Widnes, for help and the directors of Evans Medical Supplies, Ltd., for permission to publish the work.

Discussion

Dr. Evers said the authors clarified the composition of most glycerophosphates as pure isomers.

Mr. G. J. W. Ferrey recalled that twenty-three years ago he had given a paper on commercial glycerophosphates. Tests showed that at that time commercial calcium glycerophosphate was the monohydrate. In a 50 per cent. solution of sodium glycerophosphate there was little diester except in one or two makes. Some products were standardised on anhydrous sodium glycerophosphate and others on a salt with 5½ waters of crystallisation. For solubility it was best to leave out calcium glycerophosphate altogether. Mr. Ferrey asked if there was any difference of therapeutic activity between the α and the β compounds.

Dr. Foster asked if the author had a information about magnesium glycerophc phate. After the war it had been difficu in his experience, to find any British pr duct that complied with the B.P.C. requir ments. He was not so sure of the stru tures of the α and β structures, since pr cesses given in the literature for producir β derivatives were found to give α cor pounds. The β compounds were difficu to obtain. The β mono esters so readi became α esters it was odd that tl authors found α going so readily into β.

Dr. K. Bullock, Manchester, pointe out a note by the authors that tl solution of one isomer was not importa since it would dissolve in the gastric juice If there were a real decomposition, wh not give substances that were alread split?

Mr. R. W. Gillham asked if tl authors could explain why some samples c syrup. glycerophos. co. kept for month while others would not.

In reply, Mr. Toal said that the solu bility of calcium glycerophosphate, whe freshly prepared according to the B.P.C method, was 1 in 20. On standing, it fe to 1 in 100, the solubility of the monohy drate 50 per cent. solutions of sodium gly cerophosphate were, he said, low in diester He believed the diester was the cause o all the trouble. In his opinion the formul for syrup. glycerophos. co. should be re vised, basing the preparation on the pur salt. All samples of magnesium glycero phosphate today, he told Dr. Foster, in hi experience failed to pass the test. H agreed with Dr. Bullock's remarks. Th deposit encountered in syrup. glycerophos co. would not be overcome so long as im pure compounds were used.

The last two papers to be read to th Conference were taken together, Dr. F Wokes reading the first and Miss Chloe Klatzkin the second.

Protein in Malted Preparations

By F. Wokes and Chloe Klatzkin

[Abstract].

Though the total nitrogen content of malt extract may range from 0.2 to 1.2 per cent. it is usually well above 0.64 per cent., which corresponds to the B.P. 1948 minimum content of 4 per cent. (total nitrogen x 6.25). Lower diastatic values are usually associated with lower total nitrogen contents (a tendency observed with malted barley and malt extract). Only 12 to 44

er cent. of the total nitrogen of malt extract is true protein nitrogen, the greater part representing breakdown products of protein, largely formed during malting and brewing. The "less soluble" nitrogen of malt extract may range from 1.8 to 10 per cent. of the total nitrogen, and should be reduced to as low a level as possible in malted preparations. In baby foods prepared from malt extract, wheat, flour and soya flour sufficient aneurine and nicotine acid may be derived from the raw materials if care is taken to use malt extract of high vitamin B content, but fortification with riboflavine may be necessary. If the diet is adequately supplemented by vitamins A, C and D the growth-promoting effect on babies may provide a measure of the protein value of the diet. Preliminary findings in clinical trials of such baby foods suggest that 10 to 11 per cent. of protein (all from vegetable sources) is inadequate, although normal growth can be obtained with 8 to 9 per cent. of animal protein. Better results are obtained with 12 to 13 per cent. vegetable protein. These preliminary findings are in accord with the content of essential amino acid as compared with that of human milk. (From the Ovaltine Research Laboratories, King's Langley, Herts).

Assays of Riboflavine

By Chloe Klatzkin, F. W. Norris and F. Wokes

[Abstract]

A previous communication described fluorimetric and microbiological assays of riboflavine in barley, malted barley and malt extract. Certain discrepancies were encountered between the results given by the two methods. Using a more sensitive fluorimeter than has previously been described in this country, a method is given for estimating riboflavine in malted preparations which gives much better agreement with microbiological assays than had previously been obtained. The preparations when oxidised with permanganate during the purification procedure exhibit a non-specific blue fluorescence which interferes with the fluorimetric assay. In old samples of malt extract the blue fluorescence is quite marked before permanganate treatment. The behaviour of the fluorescent substance with Florisil and its low solubility in chloroform show it not to be lumiflavine. It is most effectively separated from riboflavine by adsorption on Florisil and careful elution with 1 per cent. pyridine, the process being observed continuously under the ultra-violet lamp. Spectroscopic studies indicated Wratten 47 as a satisfactory primary filter, and the results confirmed that observation. When calculating the results of riboflavine fluorimetric assays a method based on the assumption that the *net* fluorescence is proportional to the concentration, and using solvent blanks to determine the net fluorescence, is considered to be preferable to the method more usual in this country of using calibration curves obtained by plotting gross fluorescence against concentration. (From the Ovaltine Research Laboratories, King's Langley, and the Department of Industrial Fermentation, University of Birmingham).

Discussion

Opening the discussion on the papers, Dr. Evers said that he doubted whether the official diastatic and nitrogen values of malt extract could readily be attained in the present product from British malt.

Dr. G. E. Shaw asked if there was any evidence of the animal protein factor being present in malt extract and, if so, did the factor develop during germination? In investigating a non-liver vitamin B_{12} by chromatography he had found a riboflavine-like peak that was not caused by riboflavine. Replying, Dr. Wokes said that with careful selection of the barley it was not difficult to obtain a malt extract with a nitrogen content larger than the official. He did not know what was meant by an animal protein factor as applied to plant protein. The biological value of the barley proteins might be increased after malting, possibly by the destruction of a trypsin inhibitor. Miss Klatzkin said that a second yellow fluorescence that she had obtained was not riboflavine.

Authors Thanked

Dr. Evers thanked the authors of the Conference papers for their work and asked members to show their thanks with applause. The science sessions had been well attended, he said, and the discussions valuable.

Danish War-time Research.—A review of research work carried out in Denmark during the years 1939-45 has been published as a number of papers under the title "The Humanities and the Sciences in Denmark during the Second World War" (Einar Munksgaard, Copenhagen).

CORRESPONDENCE

Correspondents may adopt an assumed name for publication but must furnish their real name and address to the Editor

A Personal Matter

SIR,—In the account of the Symposium Session of the British Pharmaceutical Conference published in the *C. & D.* (October 1, p. 470) I am reported as saying that, the late John Whitfield was my apprentice master. This may perturb two worthy friends of mine who are still hale and active, and I would like the error corrected. At the beginning of this century I was apprenticed (without indentures) to J. M. Crosby, Ltd., Scarborough. The qualified staff comprised the late Robert Gilchrist and Messrs. W. R. Eyre and Thomas England (now of Romford). Two, if not all, of these gentlemen had been with Mr. John Whitfield, and it was a natural conclusion that afterwards I became his manager. To these four gentlemen I owe any success I have obtained.

Scarborough. H. M. HIRST.

Out-patient Dispensing

SIR,—At the first annual open meeting of the Hendon Group Hospital Management Committee, attended by two representatives from the Hendon and Edgware Branch of the Pharmaceutical Society, the following question, submitted in writing beforehand, was answered: "In view of the difficulty in staffing pharmaceutical departments, does not the Committee agree that the present arrangements, whereby out-patients' prescriptions are dispensed by their local pharmacist, are indeed in the best interest of the patient and should be made permanent?" The answer given by the chairman of the Management Committee (County Alderman Mrs. F. M. Suggate, B.Sc., J.P.), was that she did not see that the patient's interest was better served by the present arrangement, and that, so soon as staff conditions permitted, the matter would be reviewed by the appropriate committee and the case for the local pharmacist would doubtless be considered. In view of the current scarcity of pharmacists, it is very probable that the same temporary arrangements for out-patients' dispensing obtain in other areas. Pharmacists in retail practice will do well to consider whether they believe that the out-patient should at least have the choice of attendance at the hospital dispensary or at his local pharmacy. Representations to the local hosp tal management committee or to the R gional Board may be needed to secure th freedom. It is interesting to note that th idea still obtains, even in what may be r garded as influential circles, that the reta pharmacist, because he supplements h professional remuneration by selling me chandise at a profit, is less solicitious f the public weal than his professional co league who sells his services wholly for salary. It is time this canard was kille

S. E. BEATON, *Secretary,*
Pharmaceutical Society Branc
B. NOKES, *Secretary*
National Pharmaceutical Union Branc
Edgware.

Wholesalers and Devaluation

SIR,—On behalf of the Association British Pharmaceutical Industry and th Pharmaceutical Export Group, I am happ to make a short statement on the effec of devaluation, because it may help dispel the idea—which seems to ha gained currency in some quarters—th the British pharmaceutical industry adopting a defeatist attitude on the que tion of obtaining increased sales pharmaceutical products to America. Th policy and approach of the indust and its trade associations will necessari be based, first and foremost, on practic and realistic considerations. Our membe have noted what the Chancellor and th Dollar Exports Board have said. They a well aware of the gravity of the hou What they are doing, of course, as o imagines all other sensible and patriot exporters are likewise doing, is to stud afresh the possibilities of the Canadian an United States markets in the light of th new situation which the altered exchang rates have brought about. It is as well remember that price considerations do n play quite the same rôle in the task securing higher sales of many pharmace tical speciality products as is the case i some other industries, although u doubtedly, where lower North America export prices are possible, as a result the devaluation of sterling, despite our i creased costs in many instances, that facto will give welcome help. Many suggestio for tackling the job have been receive

ostly from within the industry itself, some om official sources, and others through ie Press. The two suggestions which have ome up most frequently, and which are some degree complementary, have been iat the industry should organise some rm of co-operative marketing in the ollar countries for the benefit, principally, f smaller firms' efforts; and that different chniques in advertising should be dopted. Each one is being carefully condered in relation to the present situation. t is interesting to reflect that some of the chniques of advertising we are exhorted, rough the most impeccable sources, to nploy are such as would undoubtedly ain the professional conscience of adversing purists in our own country, though e are advised that the Americans expect and "can take it." What can be relied pon is that British pharmaceutical manuicturers, in their approach to the task iey are called upon to examine, will llow no catchword and copy no slavish iodel, nor will they prejudice their repuation for short-term gain. They will, owever, not prove unreceptive to sound dvice, and will follow up with vigour and ndividual initiative any genuine opporunities for increased business in the dollar ountries and in other hard-currency areas hich their study of the market and rivate judgment may now show to exist. n this examination their trade organisaions are giving active assistance.

C. W. Robinson, *Secretary.*

London, W.C.1.

Pharmacists' Remuneration

Sir,—Pharmacy, had it been left to delop in the same way as medicine, would ave become equally as honourable and seful a profession. With the coming of ompany pharmacy, dividends became the rder of the day. The Society has today o right to ask intelligent youths of matricilation standard to enter its ranks to become the victims of manufacturers and the ompanies. In any other profession our oung men and women could, without havng to risk any capital, obtain better renuneration with honour and dignity. Our Council should put the question to the Government: "Do you wish the community to be served by pharmacists or not?" If the answer is that chemists are unnecessary, then pharmacy becomes an open retail trade, with no examinations.

Disillusioned.

MISCELLANEOUS INQUIRIES

Friction Lotion.—*D. M. R.*—Below is given a formula for a friction lotion:—

Glycerin	8 oz.
Saponin	½ oz.
Oil of lavender	2 oz.
Oil of bergamot	½ oz.
Geraniol	2 dr.
Musk (synthetic)	½ dr.
Industrial spirit	3 gall.
Water	2 gall.

Soapless Shampoos.—*J. C. S.*—Liquid soapless shampoos often contain a synthetic detergent such as sodium lauryl sulphate or sodium iso-lauryl sulphate. A typical formula is given below:—

Sulphated fatty alcohol	40
Water	60
Colour	q.s.
Eau de Cologne	q.s.

Sulphated oils may also be used as follows:—

Sulphated olive oil	20 gm.
Sulphated castor oil	20 gm.
Liquid paraffin	8 gm.
Water	80 gm.

Paraffin Emulsion with Phenolphthalein.—*C. McL.*—The following is a formula for emulsion of paraffin with phenolphthalein and agar:—

Agar	56 gr.
Paraffin. liq.	10 fl. oz.
Phenolphthalein.	40 gr.
Glycerin.	2 fl. oz.
Pulv. acaciæ	2 oz.
Pulv. tragacanth	2 oz.
Ol. cardamom.	2 min.
Ol. carui	2 min.
Ol. cinnamom.	1 min.
Aq. ad	1 pint

Dissolve the phenolphthalein in the glycerin in a flask heated at first by being immersed in boiling water, and (when nearly dissolved) by careful heating and rotating over a Bunsen burner. Mix the liquid paraffin with the acacia and tragacanth in a mortar and add all at once the boiling solution of agar (made by boiling the agar with eight ounces of distilled water in a weighed pan, and boiling until the weight is reduced to four ounces). Triturate until emulsified and add the essential oils (or an emulsion of the oils), and finally add the glycerin, and solution of phenolphthalein, and thoroughly mix. Transfer to a bottle labelled at required volume, and after the emulsion has stood complete by adding distilled water,

TRADE REPORT

Spot quotations for pharmaceutical chemicals represent the prices for wholesale quant ties of standard quality. Prices of crude drugs and essential oils vary as to brand or grad

28 Essex Street, W.C.2, Oct. 5

BUSINESS in PHARMACEUTICAL and FINE CHEMCALS on home-trade account has been on a good scale during the past week and the volume of export inquiries, as a result of the devaluation of sterling, has greatly increased. As was expected BISMUTH SALTS, IODINE DERIVATIVES and MERCURIALS have been advanced in price. EMETINE PREPARATIONS are also increased in price, as a result of the higher costs of raw materials—the HYDROCHLORIDE has been advanced by 20s. per oz., and EMETINE BISMUTH IODIDE by 10s. per oz. Other price changes have included increases in CALAMINE (one penny per lb.), ADRENALINE (twopence per gm.), THYMOL (1s. 9d. per lb.), and SILVER SALTS. Reductions are notified (*C. & D.*, October 1, p. 454) in prices of PENICILLIN. Makers have withdrawn prices of OPIATES, pending revision owing to an increase in the cost of Turkish OPIUM. Prior to the devaluation of sterling raw opium was officially quoted at 96s. 10d. per kilo, f.o.b., and is now 139s. 4d., f.o.b. The spot value has increased from 5s. 1½d. to 7s. 3d. per unit. A revaluation clause in the Turkish payments agreement with the United Kingdom has been brought into operation—hence the higher price.

It is thought that the recent relaxation of import controls (see p. 496) will not affect, to any appreciable extent, supplies of CRUDE DRUGS. Import licences for most articles originating in soft-currency areas have in most instances been freely granted recently; however, any step towards the removal of trade restrictions is welcome. Business is still held up to some extent pending the clearing up of devaluation "mists." There has been a good inquiry for Cape ALOES and spot values are now at 115s. per cwt.; Curaçao on the spot is quoted at 240s. CANADA BALSAM is quoted at from 17s. 6d. per lb., spot. BALSAM TOLU is firm on the spot and shipment quotations are now at 10s. 6d., c.i.f. There are few spot offers of CASCARA SAGRADA and holders are asking 255s. per cwt. for 1949 peel. ERGOT is tending easier; spot offers are from 23s. 6d. to 25s. per lb. The GENTIAN market is inclined to be easier. Prices of GINGER have again risen. IPECACUANHA continues firm. Canadian shippers indicate prices up to 11s. per lb., c.i.f., for prompt shipment SENEGA. New arrivals of Alexandrian SENNA are coming forward. Higher prices are noted for GUMS and WAXES. It is understood that the Sudanese authorities are contemplating an increase in GUM ACACIA royalties. CINCHONA BARK prices are well maintained, with a tendency to increase; East African barks a better able to compete in export marke than formerly. Quotations for *Ledgerian* barks on the spot have been withdrawn.

Demand for ESSENTIAL OILS has bee moderate, although many consumers a awaiting more settled conditions. It still difficult to get offers of a number oils. Higher prices are asked for CITRO ELLA, GERANIUM and LEMONGRASS, and i creases are announced in prices of sever ISOLATES—GERANIOL, ex Java citronell is now quoted at from 40s. per lb., whi the product derived from Ceylon oil from 29s. per lb. IONONES are als dearer—100 per cent. is quoted at fro 38s. per lb.

Exchange Rates on London

Rates at the opening on Wednesda morning were:—

Centre	Quoted	Rate
*Alexandria ...	Piastres to £	97¼—97¾
*Australia ...	£A to £	125—125½
Amsterdam ...	Florins to £	10.63—10.65
*Bombay	Shillings to rupee	1/5 15/16—1/6 1/16
Brussels	Francs to £	139.90—40.10
Copenhagen ...	Kroner to £	19.32—19.36
Dutch East Indies	Florins to £	10.63—10.65
Dutch West Indies	Florins to £	5.27½—5.29
*Hong Kong ...	Shillings to $	1/2 13/16—1/2 29/32
*Israel	£I to £	99¾—100¼
*Karachi	Shillings to rupee	2/1 27/32—2/1 15/16
Lisbon	Escudos to £	80.35—80.65
Manilla	Peso to £	5.60—5.65
Montreal	Dollars to £	3.07¾—3.08¼
New York ...	Dollars to £	2.79 7/8—2.80 1/8
*New Zealand ...	£NZ to £	100⅜—101
Oslo	Kroner to £	19.98—20.02
†Paris	Francs to £	979—981
Rio de Janeiro ...	Cruzeiros to £	——
*Singapore ...	Shillings to $	2/4—2/4½
*South Africa ...	£SA to £	100—100½
Stockholm ...	Kronor to £	14.47—14.50
*Teheran	Rials to £	89.40—91.00
Zurich	Francs to £	12.11—12.13

* Free market rates; remainder Bank of Englan fixed rates.

†Forward francs one franc either side par pe month.

U.S. Drug and Chemical Repor

New York, September 30

DEVALUATION of sterling and other cur rencies present chemical manufacturers i the U.S. with an additional problem i selling their products abroad to factor which have arisen over recent months du to dollar shortages among prospective pur chasers. Trade in most imported FINE CHEMICALS has been inactive due to un certainty over future prices; however MENTHOL has been reduced slightly i

price due to freer offerings from the Far East and reports that some Chinese material is now being prepared for shipment here; Chinese offerings are reported to range in price from $10.75 to $11.50 per lb., c. and f. New York. The spot price on Brazilian menthol is now $11.90 on the inside, against $12 previously. Lower manufacturing costs were given as the reason for cuts ranging from 15 to 25 cents per lb. in major IODIDES; the POTASSIUM SALT is now quoted at $1.95 per lb. against $2.10 previously, SODIUM is $2.47 (against $2.72) and RESUBLIMED IODINE at $2.30 (against $2.55). No SANTONIN is available here although there is a good volume of demand for the product. The market for BOTANICAL and CRUDE DRUGS has continued to display a generally firm tone despite inactivity due to uncertainty over the future prices of imported items following devaluation. Some items remain very hard to get, GALANGAL and RHUBARB among them. Little news of prices has yet come in from overseas, but some of the few reports received indicate that prices are not more than 5 per cent. down on the outside. Caution is the keynote on the ESSENTIAL OILS market as regards imported produce: dealers are awaiting new price lists, particularly from sterling areas. It is pointed out, however, that the trend in the prices of quite a few items which originate from sterling area countries has been showing an upward movement in recent weeks—including CITRONELLA, CASSIA and LEMONGRASS.

Pharmaceutical Chemicals

BISMUTH SALTS.—Owing to an increase in the cost of metal, home-trade prices have been advanced from October 1, as follows:—CARBONATE.—1-cwt. lots, 16s. (28-lb. containers); 16s. 1½d. (7-lb.); 16s. 4d. (1-lb.); smaller quantities are scheduled up to 19s. 5½d. per lb., according to pack. CITRATE is 2s. 11d. per lb., SALICYLATE 2s. 3d. per lb. and SUBNITRATE 2s. 4d. per lb. less than carbonate, and SUBGALLATE is threepence per lb. more.

CALAMINE. — Following the increase in the cost of zinc metal, prices are advanced from September 26 by one penny per lb. 1-cwt. lots are now quoted at 1s. 9d. per lb.

EMETINE HYDROCHLORIDE. — Makers advise higher prices from October 1, as follows:—32-oz. lots, 195s. per oz.; 16-oz., 197s. 6d.; 4-oz., 200s.; 1-oz., 207s. The BISMUTH IODIDE derivative is quoted as follows:—32-oz. lots, 102s. per oz.; 16-oz., 103s. 6d.; 4-oz., 105s.; 1-oz., 106s. 6d.

IODINE PREPARATIONS. — As a result of an increase in the cost of crude iodine on September 19, home trade prices of all derivatives are increased from that date, as follows:—RESUBLIMED IODINE, B.P.—1-cwt. lots, 18s. (28-lb. containers); 18s. 1d. (14-lb.); 18s. 1½d. (7-lb.); 18s. 2½d. (4-lb.); 18s. 3d. (2-lb.); 18s. 4d. per lb. (1-lb.); smaller quantities are scheduled up to 22s. 2½d. per lb. POTASSIUM IODIDE, B.P. — 1-cwt. lots, 15s. 5d. (28-lb. containers); 15s. 6d. (14-lb.); 15s. 6½d. (7-lb.); 15s. 7½d. (4-lb.); 15s. 8d. (2-lb.); 15s. 9d. (1-lb.); smaller quantities, up to 18s. 11½d. per lb. SODIUM IODIDE, B.P.—1-cwt. lots, 16s. 9d. (28-lb. containers); 16s. 10d. (14-lb.); 16s. 10½d. (7-lb.); 16s. 11½d. (4-lb.); 17s. (2-lb); 17s. 1d. (1-lb.); smaller quantities, up to 21s. 10½d. per lb. IODOFORM POWDER, B.P.—1-cwt. lots, 21s. (28-lb. containers); 21s. 1d. (14-lb.); 21s. 1½d. (7-lb.); 21s. 2½d. (4-lb.); 21s. 3d. (2-lb.); 21s. 4d. (1-lb); smaller quantities, up to 25s. 10½d. per lb. IODOFORM CRYSTAL is 2s. per lb. more than powder. Containers charged, excepting 28-lb. tins which are free. Special rebate of fourpence per lb. allowed for quantities of 5-cwt., in one delivery or on contract (three months). Carriage paid in Great Britain, Northern Ireland and Eire (duty for buyer's account).

LACTOSE. — Dutch (B.P.) is quoted at 1s. 7d. per lb. for 5-ton lots; 3-ton, 1s. 7¼d.; 1-ton, 1s. 7¾d.; less than one ton, 1s. 8d., duty paid, ex wharf London. English is from £120 per ton.

MAGNESIUM HYDROXIDE, B.P.C.—Makers' price for 1-cwt. lots is 2s. 11d. per lb.

MERCURY SALTS.—Makers' prices were advanced on October 1. Home-trade rates for AMMONIUM CHLORIDE, B.P. powder, are from 9s. 11d. (1-cwt. lots) to 10s. 7d. (7-lb.); lump is twopence per lb. less. BICHLORIDE, B.P., powder, is from 8s. 3d. to 8s. 11d. per lb.; lump sixpence per lb. more. CALOMEL, B.P., is 9s. 11d. to 10s. 7d. per lb. RED OXIDE, B.P.C., and YELLOW OXIDE, B.P., are from 10s. 7d. to 11s. 3d. per lb.

ORTHOCAINE.—Quotations are from 120s. to 125s. per lb., as to quantity.

SILVER SALTS.—As a result of increased cost of metal, home trade prices of salts have been advanced from September 22. NITRATE is about one shilling per oz. dearer; 1,000-oz. lots are now quoted at 3s. 4⅝d. per oz. PROTEIN, B.P. (8 per cent.) has been increased by 2s. 3d. per lb.; 14-lb. lots, in tins, are now 36s. 3d. per lb. VITELLIN, B.P.C., 20 per cent., is dearer by 6s. per lb.; 14-lb., 66s. per lb. 30 per cent. is dearer by 9s. per lb.; 14-lb., 88s. per lb.

THYMOL.—Owing to increased cost of raw material one maker has advanced prices from October 3 by 1s. 9d. per lb. 7-lb. lots are now quoted at 20s. 3d. per lb.

VANILLIN.—Current rates are: 5 cwt., 22s. per lb.; 1 cwt., 22s. 3d.; 56 lb., 22s. 6d.; smaller quantities, 22s. 9d. per lb. Supplies from maker are on quota.

Crude Drugs

ALOES. — Prime Cape quoted at 115s. per cwt., spot; shipment, 102s., c.i.f. Curaçao is from 220s. to 240s. per cwt., spot. Socotrine is quoted at 170s. per cwt.

ANTIMONY.—New prices for metal are: 99.6 per cent. regulus, £195; 99 per cent., £185 per ton, delivered.

BALSAMS. — *Canada*, paper-filtered, quoted at from 17s. 6d. per lb., spot. Pará *Copaiba*, B.P., is from 6s. 9d. per lb., spot. San Salvador *Peru* on the spot is quoted at 5s. 6d. per lb., duty paid. *Tolu* is firm at from 10s. 6d. per lb., spot; forward, 10s. 6d., c.i.f.

BELLADONNA.—Jugo-Slav root (0.45 per cent.), 4s. 3d. per lb., duty paid; Jugo-Slav herb, 6s. 6d., duty paid. English leaves, quoted at 4s. 6d. per lb.

BENZOIN.—Continues firm. Sumatra good almondy block, spot, from £18 10s. per cwt.; shipment, £17 15s., c.i.f.

BISMUTH.—New basic rate for metal, with effect from September 19, is 14s. 6d. per lb.

CANTHARIDES.—Quiet. Chinese on spot is quoted at from about 6s. 6d. per lb.

CAPSICUMS. — African on spot is now quoted at 125s. to 175s. per cwt., as to quality.

CASCARA SAGRADA. — A firmer market with few offers. 1949 peel is quoted at 255s. per cwt., duty paid.

CLOVES.—Firm. Zanzibar is offered at from 1s. 6½d. per lb., spot; October-November shipment, 1s. 5¼d., c.i.f. Madagascar, in bond, 1s. 5½d. per lb.

ELEMI.—A quiet market. Manila No. 1 is quoted at from 1s. 10d. to 2s. per lb., spot.

ERGOT.—Market tending easier. Quotations range from 23s. 6d. to 25s. per lb., spot; forward, 21s. 6d. to 25s., c.i.f.

GALLS—Steady. Persian blues quoted on spot at 260s. per cwt.

GAMBOGE.—Siam pipe is offered at £40 per cwt., duty paid; powder, 11s. per lb.

GENTIAN.—French natural is quoted at from 80s. per cwt.; to arrive, 70s., c.i.f.

GINGER.—African, on the spot, sellers at 310s. 6d. per cwt. Jamaica, No. 1, nominal; No. 2, nominal; No. 3, 320s., value.

GUAIACUM RESIN. — Steady. Quoted at 2s. 6d. per lb., spot.

GUM ACACIA.—A firmer market. Kordofan cleaned sorts, 82s. 6d. per cwt., spot; shipment, 78s., c.i.f., extra royalties (if any) on buyers' account. Talha, 50s. per cwt., spot; to arrive, 47s. 6d., c.i.f.

IPECACUANHA.—Nicaraguan on the spot is offered at from 35s. to 40s. per lb.; afloat, 35s., c.i.f. Colombian is quoted at from 30s. to 32s. per cwt., spot.

JALAP.—Vera Cruz is offered at fro 4s. to 4s. 6d. per lb., spot, as to test.

KARAYA.—Steady. No. 1 gum on spot i quoted at 220s.; to arrive, 218s., c.i.f. No 2, 185s. per cwt., spot.

LIQUORICE.—Anatolian natural root, fo shipment, quoted at 55s. per cwt., c.i.f. cut lengths, 70s., spot. Syrian natura quoted 37s. 6d., spot; cut, 55s. per cwt Russian natural, quoted at 55s. per cwt spot.

LYCOPODIUM. — Russian triple-sifted o the spot is offering at 14s. 6d.

MACE—West Indian blade is availabl at 6s. per lb. on the spot; prices of picking are from 2s. to 4s. 6d., as to quality.

MENTHOL.—Brazilian is quoted at 85s per lb., spot, duty paid; in bond, 82s. pe lb. A firm market.

MERCURY.—Spot price is now £26 5s per flask; for shipment, £25 10s., c.i.f.

MYRRH.—Aden sorts, spot, offered at £1 per cwt., siftings are at £6 10s. to £7.

NUTMEGS. — West Indian 80's quote 2s. 8d., on spot; shipment, 2s. 2½d. per lb. c.i.f.; sound assorted, 2s. 1d. spot, wormy

NUX VOMICA. — Cochin is offered fron 36s. to 37s. 6d. per cwt., spot; 32s. to 33s. c.i.f. Madras for shipment, 27s. per cwt. c.i.f. Cocanada, 35s. per cwt., spot.

OLIBANUM.—Fair drop is quoted at 150s. peas at 190s., fair garblings, 125s., an siftings at 80s. per cwt.

PAPAIN.—East African, on the spot, i quoted at 12s. 6d. per lb.; Ceylon brown quoted, 9s. per lb., spot. Tending firme

PIMENTO. — Spot offers are at fron 1s. 2d. per lb.; to arrive, 119s. per cwt. c.i.f.

QUILLAIA. — Small supplies on spot Natural bark, 130s. per cwt., quoted.

QUINCE SEED. — Cape on the spot i steady at 3s. 6d. per lb.

RHATANY.—Quiet. Spot quotations ar unchanged at 9d. per lb.

RHUBARB.—Spot offers are from 7s. t 7s. 6d. per lb. for Chinese common round two-thirds pinky fracture; afloat, 6s. 6d. c.i.f., quoted.

SARSAPARILLA.—Jamaica native red, o the spot, is offered at 2s. to 2s. 2d. pe lb.; Jamaican grey, 3s. 6d., spot.

SENEGA.—Spot supplies are offered a from 10s. 6d. per lb.; afloat, 9s. 9d. to 10s per lb., c.i.f. At origin, indications up t 11s., c.i.f.

SEEDS. — The ANISE market remain firm. Cyprus, quoted at 160s. per cwt. duty free; Turkish, 150s. per cwt., in bond both spot London. CARAWAY.—Dutch i advanced to 110s. per cwt., duty paid, spot London; 95s. per cwt., now quoted, f.o.b Holland. CELERY.—Indian, for shipment now offered at 132s. 6d. per cwt., c.i.f.; the spot price is now 1s. 3d. per lb. French

is quoted at 1s. 4½d. per lb., duty paid in London. CORIANDER.—Market firm and advancing. Morocco, for shipment 70s. per cwt., duty paid, in London, is now quoted. Argentine on spot has practically all been cleared. Whole seed is 60s. per cwt., duty paid, and split seed, 55s. per cwt., duty paid, ex store Hull. CUMIN.—Market continues firm. Cyprus on spot is now quoted at 160s. per cwt., ex wharf Liverpool or London. Indian, 157s. 6d., spot London and 155s. per cwt., ex store Liverpool. Morocco is offered at 140s. per cwt., in bond and 155s. per cwt., duty paid; for shipment, 132s. 6d. c.i.f., now quoted. DILL.—Indian is quoted at 55s. per cwt.; for shipment, 60s. per cwt., c.i.f., London. FENNEL.—Indian is in poor demand; 70s. per cwt., quoted on the spot, and 70s. per cwt. for shipment. FENUGREEK.—Indian has been sold at 60s. per cwt., spot London. Morocco is 57s. 6d. per cwt., duty paid in London.

SENNA.—Tinnevelly leaves, spot, No. 1, from 9½d. to 11d. per lb.; No. 2, 7½d. to 8d.; No. 3, 6d. per lb.; Tinnevelly pods, hand-picked, 9d. to 1s. 5d.; manufacturing, 5d. to 6d. Alexandrian pods, hand-picked, spot, from 4s. 9d. to 5s. 9d. per lb., nominal; medium grades are 3s. to 4s.

SHELLAC.—F.O.T.N., pure, is quoted at 340s. per cwt.; F.O. Standard 1, 355s.; fine orange, 370s. to 415s., spot London.

STROPHANTHUS.—*Kombé*, 100 per cent., is nominal at 15s. 6d. per lb., spot.

STYRAX.—Crude is offered at 6s. 4½d. per lb., spot, duty paid.

TONKA BEANS.—Parà (fair frosted) is offered at 7s. 9d. per lb., spot; Trinidad, quoted at 8s. per lb., spot.

TRAGACANTH.—Selected white ribbon is quoted at £115 per cwt.; other white grades on the spot are offered at from £65 to £100 per cwt.

TURMERIC.—Market reported quiet. Spot quotations for Madras are about 115s.; afloat, about 110s. per cwt., c.i.f.

VALERIAN.—Belgian natural on spot is offered at prices from 170s. per cwt.

WAXES.—Firmer markets. BEES'.—Dares-Salaam is offered at 365s., spot; October-November shipment, 340s. per cwt., c.i.f. Lindi is quoted at 365s., spot; shipment, 345s., c.i.f. Benguela, quoted 365s., duty paid; forward, 335s. per cwt., c.i.f. CANDELILLA.—Spot quotations are at 670s. per cwt.; no forward offers. CARNAUBA.—Prime yellow, 890s., spot.; shipment, 860s. per cwt., c.i.f. Fatty grey on the spot is offered at 670s. per cwt.; October-November shipment, 650s., c.i.f. MONTAN.—Reibeck is 185s., spot; forward, 145s., c.i.f., quoted. OURICURI.—A parcel for shipment of 99.5 pure is offered at 640s., c.i.f.; 3.9 per cent. impurities is available on the spot at 640s. per cwt. SPERMACETI.—Quoted unchanged at 2s. 5d. per lb., spot.

Essential and Expressed Oils

CITRONELLA. — Nominal on the spot. Ceylon, afloat, is quoted at 7s. per lb., c.i.f.; Java, for shipment, 11s. 9d. per lb., c.i.f., nominal.

CLOVE. — English-distilled bud oil is from 12s. 9d. to 13s. 6d. per lb., according to quantity; imported oil is 7s. per lb.

EUCALYPTUS.—Spot quotations for 70-75 per cent. (B.P.) are from 3s. 9d. to 4s. per lb. for drums, as to seller.

FENNEL.—Quiet. Sweet oil quoted from 18s. per lb., spot.

GERANIUM.—Bourbon, for shipment, 75s. per cwt., c.i.f., nominal.

LAVENDER.—French, 38-40 per cent., on spot is quoted at from 21s. per lb. upwards; 40-42 per cent., 23s. Spanish spike is offered at from 8s. per lb.

LAVANDIN.—Firm. Spot offers are from 8s. 3d. to 10s. per lb.

LEMONGRASS. — A parcel to arrive is quoted at 13s. 3d. per lb., c.i.f.

ORANGE. — West African sweet on the spot is in short supply at from 8s. 6d. per lb., duty paid. Palestinian sweet is from 9s. 9d. to 10s. 6d. per lb., spot; bitter is from 19s. to 20s. per lb.

OTTO OF ROSE.—Bulgarian is offered at 270s. per oz., and Anatolian at 220s. per oz., both spot London. Other grades are available from about 170s. per oz.

PALMAROSA. — Small supplies held at about 35s. per lb.; shipment, 33s. 6d., c.i.f.

TEASEED. — Spot quotations for refined oil are at 22s. per gall.

VALERIAN.—English-distilled oil is quoted at 75s. per oz.

VETIVERT.—Bourbon on spot is nominal at around 80s. per lb., as to grade.

YLANG YLANG. — Bourbon is quoted at from 65s. per lb.

REFINED VEGETABLE OILS.—Ministry of Food prices (per ton) of refined oils allocated to primary wholesalers and large trade users during the eight-week period ending November 5 are given in the following table. Prices are unchanged.

Oil	Grade	Price £
Coconut	Refined deodorised ..	112
Coconut	Refined hardened	116
Palmkernel	Deodorised	112
Palmkernel	Hardened deodorised...	116
Cottonseed	Refined deodorised ..	114
Groundnut	Refined deodorised .	114
Groundnut	Refined hardened, deodorised to 40° ...	118
	deodorised to 50/52°	119
Palm	Refined deodorised ..	111
Palm	Hardened deodorised...	114

Rates for bulk supplies, naked, ex works.

TRADE MARKS

(*From the "Trade Marks Journal," September* 14)

For pads for hair drying (3).—"HAIRBANETTE"; by Osborne David Philips and Richard Montague Philips, London, S.W.3; 674,308.

For non-medicated skin lotions (3).—"POND'S" in circular device including flowers; by Pond's Extract Co., Ltd., Greenford; 676,631.

For detergents (3).—"SURGENT"; by Savory & Moore, Ltd., London, W.1; B677,292.

For pharmaceutical preparations (5).—"CARL'S CORN CURE" and portrait of man; by Max Carl, London, E.2; B665,723. "TRELCO"; by Fredk. Tyrrell & Co., Bolton; 675,226. "DIAMIZOL"; by Parke, Davis & Co., Detroit; 678,205. "SYNOPEN"; by J. R. Geigy Société Anonyme (J. R. Geigy Aktien-Gesellschaft), Basle; 678,305.

For disinfectants (5).—"SILVER FOUNTAIN"; by "Silver Fountain" Products, Ltd., Birmingham; 669,641. "FECT-O-PERF"; by Jay-Bee Products (Belfast), Ltd., Belfast; 671,137.

For all goods excluding sanitary clothing (5).—"YIKASHA"; by John Ashford, Kiambu, East Africa; 676,200.

For all goods (5).—"NEO-ESDEVITE"; by Sharp & Dohme, Ltd., Hoddesdon; 676,399. "HISTANTIN"; by the Wellcome Foundation, Ltd., London, N.W.1; 677,626. "ZEVESTEOL"; by Dae Health Laboratories, Ltd., London, W.1; 677,897.

For medicated toilet paper, sanitary towels and paper handkerchiefs (5).—"PAPCOL"; by the Colindale Paper Co., Ltd., London, N.W.9; 676,802.

For fungicides, germicides and insecticides (5).—"COBRA"; by Société à Responsabilité Limitée Cobra, Paris; 677,438.

For disinfectants, insecticides and sheep-dip (5).—"TEMGAS"; by the Gas Light and Coke Co., London, W.8; 678,183.

For vermin-destroying preparations (5).—"SOREXA"; by Ward, Blenkinsop & Co., Ltd., London, W.1; 678,358.

For hairbrushes (21).—"ELBRU"; by the Electric Hair Brush Co., Kenton; 672,515.

For pharmaceutical preparations and preparations for destroying weeds and vermin (5).—"ZYTOCIN" in distinctive lettering; by Emion Holdings, Ltd., Londo S.W.1; 673,065.

For perfume sprays (21).—"AROMIST" by Walsall Pressings Co., Walsall; 677,78

(*From the "Trade Marks Journal," Se tember* 21)

For all goods (1).—"FORMAX"; by M & Baker, Ltd., Dagenham; 676,099.

For soaps (3).—"WILCAM"; by Wilki Campbell & Co., Ltd., West Drayto 669,675. "STARBOLO" on device of fla by W. J. Beattie & Son, Liverpo 673,479. "PREM"; by Premier Soap C Ltd., Hull; 677,147. "PEARS TRAN PARENT SOAP" on label device; by A. & Pears, Ltd., Isleworth; 676,698.

For all goods (3).—"TWILLAST" a device of pyramid; by Whitakers (Bolto Ltd., Bolton; B671,650. "SNOWUNDA" by Snowunda, Ltd., Liverpool; 673,404.

For hair cream containing bay rum (—"VITACREAM" on label device; by S vicream Toilet Preparations Co., Liverpo 668,407.

For non-saponaceous shampoos (3).- "VASELINE SOAPLESS SHAMPOO"; label device; by Chesebrough Manufactu ing Co., Ltd., London, N.W.10; 676,527

For perfumes (3).—"GIWAN YANNI PE FUME" on label device including elephan head; by John Menguissoglou, Ltd., Kan Nigeria. 676,967.

For non-medicated toilet preparatio (3).—Device of carriage and figures period costume; by George Grimsha Hammond, Reading; 676,844.

For soaps and detergents (3). - "VENUS"; by Joseph Watson & So Ltd., Leeds; 678,197.

For chilblain ointment, bust-developi preparations and obesity treatment pr parations (5).—"DIVA" in distinctive le tering; by Diva-Labor, Zurich; 665,432.

For pharmaceutical preparations (5).- "MEDANA TEATIME TABLETS" in distin tive lettering; by George Wright Taylo Sheffield; 671,327. "PANCORAN"; b J. R. Geigy Société Anonyme (J. R. Gei Aktien - Gesellschaft), Basle; 671,97 "KAYVIT" and "AMISYN"; by Armo & Co., Ltd., London, E.C.1; 676,376 a 677,123. "JINTIES"; by Hough, Hoseas & Co., Ltd., Manchester; 677,150 "MASTEX"; by Osmond & Sons, Ltd Grimsby; 677,374. "PENAUROL"; b Wallace Trehane Stoyle, Beckenham 677,443.

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'RADIO-MALT'	Small jars	2/1½	3/-
	Large jars	3/10	5/6
'MULTIVITE'	Container of 75 pellets	3/7½	5/3
	Bottle of 500 pellets	18/-	27/-

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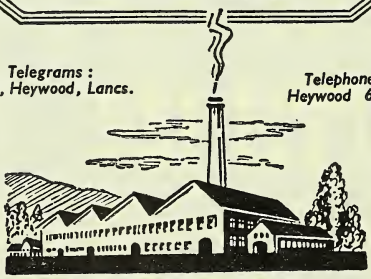

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Contains Liquid Malt,
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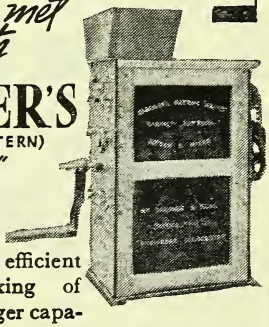

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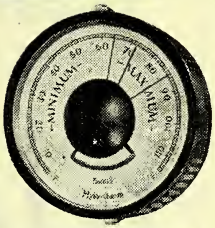

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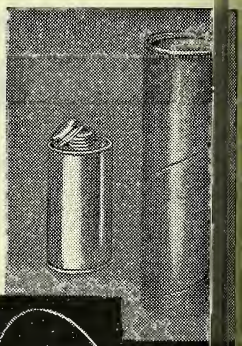

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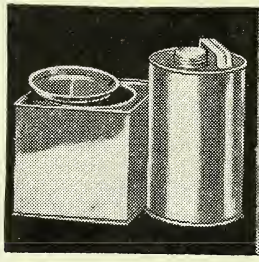

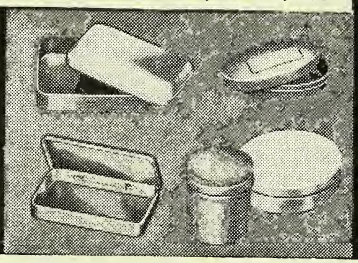

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Sets from 3/1 to 32/6
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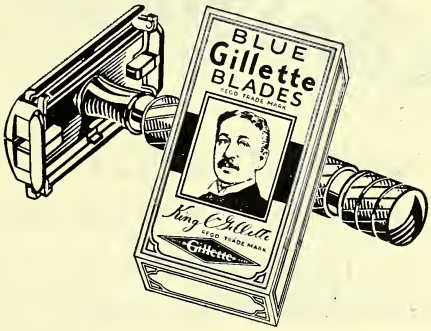

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An attractive moulded Hot Water Bottle in high-grade rubber. The handsome ribbed finish is a clever comfort feature too—it absorbs and radiates the maximum amount of heat, yet never becomes excessively hot to the touch. Colours :—Red, Blue and Green.
Each Bottle individually packed in handsome sales compelling carton. A special window or counter display, as illustrated, is included with all orders for 1 doz. bottles.

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KIDDIES' HOT WATER BOTTLE

LI-LO kiddies' moulded Hot Water Bottle. Nursery rhyme and picture embossed on the surface. Seamless. Best quality rubber. In pastel Blue and Pink. Now supplied in colourful transparent wrappers—a new sales appeal for a proven favourite.

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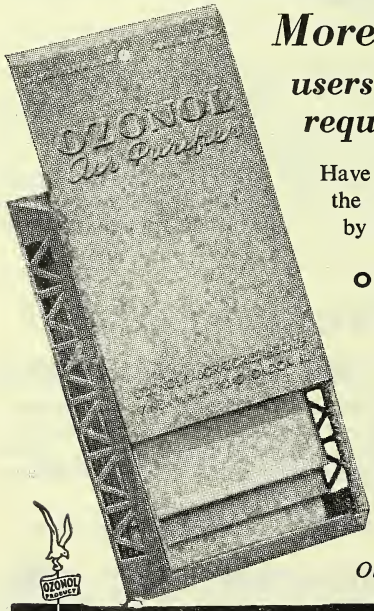

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Have you stocks to meet the ever-increasing demand
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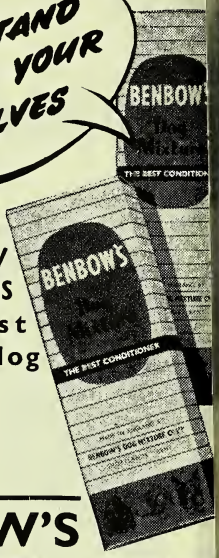

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Sellotape Seals . . .

. . . and ***how*** it seals ! Try it instead of string for your " over the counter " packages. It's self-adhesive, quicker, neater and a little goes such a ***very*** long way. Protect bottle labels with Sellotape too, no more tears, smears, dirt or damage—your label's just as it should be—clean and legible ! And why keep the Sellotape secret to yourself, it has endless uses in the home. It will pay you to stock Sellotape in the handy dispensers available for resale to the public. Backed by first-class display material, and national advertising they'll be in and out of your shop before you can say Sellotape.

Write or phone for full details now!

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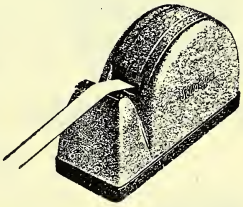

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'ASPRO' BAGS—PRICES REDUCE

We are passing on to you the full benefit of the lower product costs of paper bags :—

GREASEPROOF (formerly 9/- per 1,000)
NOW 6/- per 1,

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We suggest you take advantage of this opportunity ordering now.

AN ELECTRIC CLOC AT COST PRICE—£

We are now able to supply you with a precision-ma Smith's "Sectric" clock (as illustrated) for use in yo shop or window—size 13½" x 10½". It is a quality jo elegant and modern in appearance and an excellent tim keeper. We have had a host of approving comments from the 500 chemists who have already installed these clocks. We urge you to take advantage of the opportunity while supplies are available at this exceptionally low price.

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flexible teeth

THIS is the comb with the roundest, strongest, most flexible teeth of all, saw-cut from genuine Vulcanite. Appeals instantly to the discriminating and the value-conscious comb-buyer, livelier, stronger, smoother.

Tail comb (top lef.)	294/7½
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Many other popular lines are available. Send for illustrated list. Order through your wholesaler.

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Vulcanite Combs

BETTER FOR THE HAIR

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The Complete Service

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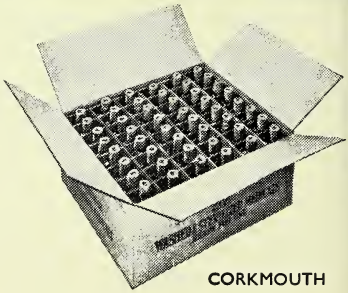

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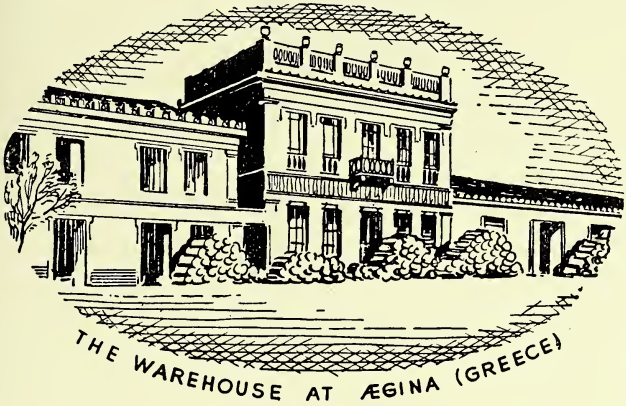
Tel.: GERRARD 8611 (15 Lines) *Grams:* UNGLABOMAN, LESQUARE, LONDON



"RELIANCE"

SPONGES

AND CHAMOIS LEATHERS

The illustration above is of one of the large warehouses on the Greek island of Aegina, where sponges from all the big fishing centres throughout the Mediterranean are collected, prepared and packed for distribution to the markets of the world. In over 100 years of steady progress we have maintained our reputation as the "right house" for Sponges and Chamois Leathers ("Reliance" Brand). Your enquiries will receive our courteous, prompt and knowledgeable attention.

Send for illustrated leaflet showing our full range of attractive sales-producing sponge-boxes.

CRESSWELL BROS. SPONGES

(INTERNATIONAL SPONGE IMPORTERS LTD.)

INTERNATIONAL HOUSE

BUCK STREET, CAMDEN TOWN, N.W.1

'PHONE: GULLIVER 5462-3. *'GRAMS: SPONGE, NORWEST, LONDON*

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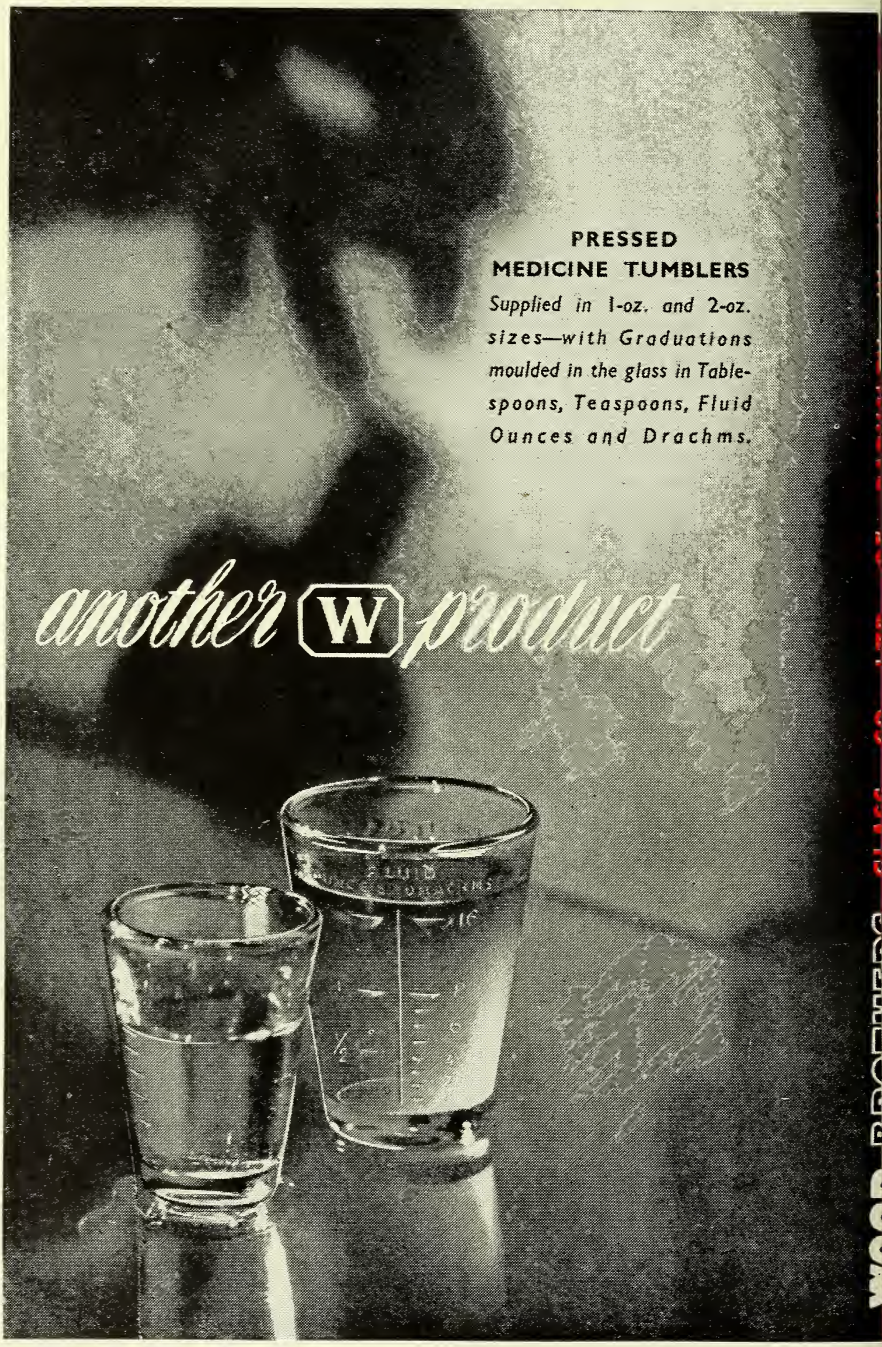
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MEDICINE TUMBLERS
Supplied in 1-oz. and 2-oz. sizes—with Graduations moulded in the glass in Tablespoons, Teaspoons, Fluid Ounces and Drachms.
another W product

MAKE IT A GALA CHRISTMAS!

they're irresistible, these GALA OF LONDON preparations, charmingly gift-packed for Christmas

If you like the constant ringing of a cash register, display these beautifully packed GALA OF LONDON gifts where everyone can see them. How readily women will choose them to give away and to keep—how thankfully men will buy them to solve their Christmas shopping puzzles! There are retail prices to suit everyone's pocket.

***GALA OF LONDON gifts will be lavishly advertised in the Christmas magazines—just as Lip Line and Nail Colour were advertised.**

PRICES

	TRADE (without purchase tax)	RETAIL (with tax)
1 Lip Line Palette	216/- per doz.	45/-
2 Lip Line Wardrobe	85/- per doz.	17/9
3 Nail Colour Wardrobe	48/- per doz.	10/-
4 Lip Line and Nail Colour Twinset	48/- per doz.	10/-
5 Lipstick and Nail Colour Twinset	60/- per doz.	12/6

GALA OF LONDON

Orders and enquiries to:

Distributors: MYRAM PICKER LTD · HOOK RISE · SURBITON · SURREY

THERMOGENE RUB
for Children

is specially prepared for sensitive skins

A soothing Vapour Rub for Children's Head & Chest Colds, Coughs, Sore Throats

Thermogene Rub for Children is an exceptionally bland, stainless, double-action vapourising Rub specially prepared for use in the treatment of children's colds and coughs. Gently rubbed into chest, back and neck, it imparts soothing, comforting warmth; and the pleasant medicated vapour it gives off relieves the tickly throat, chestiness and stuffy nose that are usually the first signs of a child's cough.

In jars, price 1/6 of all Chemists

A product of The Thermogene Co Ltd
Manufacturers of the famous Thermogene Medicated Wadding and Thermogene Vapour Rub

The NEW Thermogen Rub for Childr

will be extensively advertised!

Large scale advertisements appear in National News rs with circulations running i many millions!

Thermogene Rub for Childre ll also be mentioned in all advertisements of Thermoge Medicated Wadding

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Haywards Heath

Reduced facsimile of 6" d.c advt.

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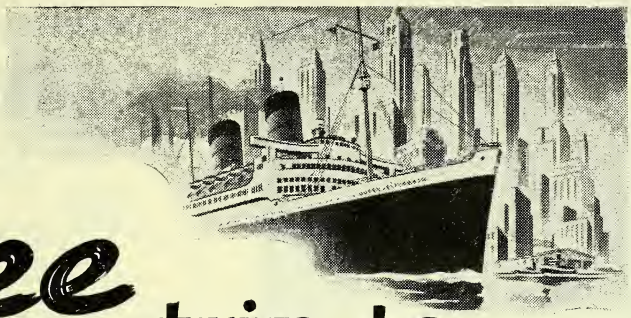
ENGLAND



Free trip to New York and back!

This is the First Prize in the Kent-Cosby Allure" Perfume Hairbrush Competition. A ee Trip to New York and back for two people. e Winner of the Competition can take a end or relative along to participate in all the od things of the trip, travelling First Class on e Queen Mary, Queen Elizabeth or other nard Luxury Liner (away approximately three eks) including Hotel and living expenses in e of the World famous New York Hotels.

Free entertainment whilst in New York, inding an evening out with one of Hollywood's mous Film Stars. In addition to all the above, 50 in cash for the Winner.

FTY CONSOLATION PRIZE OUCHERS VALUE £2 EACH FOR ENTS WORLD FAMOUS BRUSHES

This simple competition consists of deciding ich of the six outstanding advantages of the Kent-osby "Allure" Perfume Hairbrush as detailed on the entry form you consider the best. Then, in the space provided on the entry form, state in not more than 25 words why you consider it to be so.

KENT-COSBY "ALLURE" PERFUME HAIRBRUSH COMPETITION.

Open to Men and Women

Each entry must be covered by the purchase of a Kent-Cosby "Allure" Perfume Hairbrush during the period of the Competition and a dated receipt made out by the Retailer from whom the brush was purchased has to be attached to the Entry Form.

The above is the advertising story on this wonderful Competition which will be nationally advertised in the *News of the World, Sunday Express, Daily Mirror,* etc. The national advertising together with Free Entry Forms, Showcards, etc., will be released on the commencing date, November 1st, 1949.

50 CASH PRIZE FOR RETAILER WHO SELLS THE "ALLURE" BRUSH TO THE WINNER OF THE FIRST PRIZE.

To ensure adequate stocks cope with the demand eated by this unique inguing competition, fill in d post order form now to ake certain you have ample pplies and so avoid dispointment to your customers

ORDER FORM FOR APPROVED ACCOUNTS

To: Messrs. G. B. Kent & Sons Ltd.,
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KENT-COSBY "ALLURE" PERFUME HAIRBRUSHES
Please supply: ..... Pink ..... Blue ..... Green
..... Ivory ..... Allure Perfume Essence

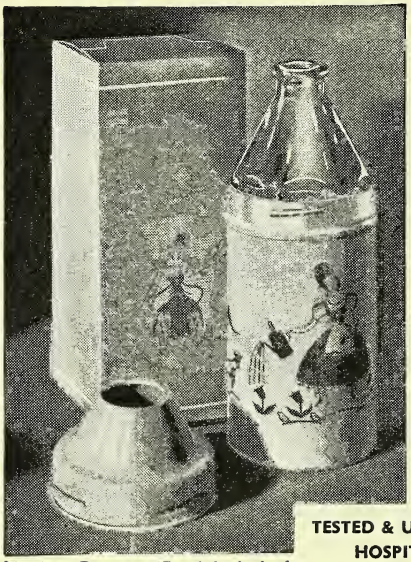
Name .....

Address .....

.....

(*Block Letters Please*)

. B. KENT & SONS LTD., 24 OLD BOND STREET, LONDON, W.1.



Morley Rogers (Feedrite) Ltd.
300 Kingston Rd. London S.W.20

TESTED & USED BY HOSPITALS & CLINICS

SIMPLE NEW INVENTION • A BLESSING TO MOTHE

The FEEDRITE

Baby Feeder sells on sight because of its common sense a to mothers. Tested and used by Hospitals and Clinics.

READ THESE FACTS

1. Average time taken over bottle feed- minutes.
2. Without the Feedrite container the mil put into Baby's Bottle at 112° and afte minutes the temperature drops to 96° w is too cold for Baby, and mother ha re-heat the milk.
3. With the specially lined Feedrite cont milk is put into the Feeding Bottle at 1 and does not lose more than 1° of in 30 minutes.
4. Eliminates the necessity to re-heat half-way through feed.
5. Makes ideal present.
6. Prevents gripe and wind caused by drinking cool milk.
7. Prevents bottle breakage.
8. Colour scheme pink with nursery rh design in blue.
9. Attractive showcards available on reque
10. Trade terms 39/- per dozen, packed in dozen boxes. Quantity terms on req
11. Price to public 4/6 complete with fee bottle (excluding teat).

NATIONALLY ADVERTISE

North-East
PHARMACISTS

Your enquiries are Invited for :-

DRUGS
GALENICALS
PILLS AND TABLETS
CHEMICAL AND
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ALSO
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Speedy delivery in our own vans wherever possible

MIDDLETON & Co. LTD
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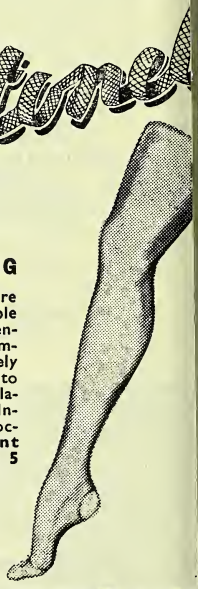

FEATHERWEIGHT
ELASTIC STOCKING

This ideal made-to-measure surgical stocking is available in thigh or knee lengths, ensuring perfect fit with complete comfort. Made entirely of net, the stocking is cool to wear, allowing free circulation of air over the skin. Invisible under the normal stocking. **Cases certified urgent by Doctor, supplied in 5 days.**

Full details and particulars of Medical opinion from :—

LASTONET PRODUCTS LTD · CARN BREA · REDRUTH · CORNW

Go hand in hand with 'KOLYNOS' -for bigger, quicker profits

You have the selling help of 'Kolynos' advertising in every leading newspaper and periodical when you display this famous dental cream.

Put 'Kolynos' in your window and on your counter for quicker, profitable sales!

'Kolynos' can be included with other I.C.C. lines to qualify for Co-operation Discounts of 12½% on orders of £10 and over; 10% on orders of £5 and over.

INTERNATIONAL CHEMICAL CO. LTD., CHENIES STREET, LONDON, W.C.1

Here are the Johnson twins

with DOUBLE sales app

Johnson's Baby Powder — that you know so well as a consistent seller — now has a twin — Johnson's Baby Lotion! It sets mothers rejoicing and babies cooing all over the world.

Johnson's Baby Lotion makes nappie changing *easier — cleaner — quicker*. It was first introduced in hospitals and baby clinics to protect babies' tender skin and prevent nappie rash. You can recommend it for sunburn, windburn, chapping and skin irritations.

To every mother who buys Baby Powder, sell her Baby Lotion, too. They'll appreciate these twin aids in baby care, and you make twin sales where you made only *one* before.

Johnson's { **BABY LOTION** *for quicker, soothing nappie changing*
BABY POWDER *for sweet and gentle, happy bathing*

JOHNSON & JOHNSON (GT. BRITAIN) LTD · SLOUGH AND GARGR

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The gleaming chromium of Hokon Display Fittings, with their glistening hygienic glass shelves, instantly adaptable to varying heights and re-arrangement, are an investment wh ch will yield you big dividends in goodwill and increased service.

Let us send you fullest particulars of these, the latest development in Display Fitt.ngs.

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GOUT, ASTHMA, CEREBRAL CONGESTION and URAEMIA

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d-Tubocurarine Chloric

The Pure Crystalline Alkaloid for securing Muscular Relaxation in Surgical Operations and Shock Therapy.

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Manufactured by:

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The Scientific Background of Ammi-dent, the Ammonium Ion Dentifrice

Pharmacists will be interested in the theory behind this new Dental therapy. It is the climax of over 15 years' simultaneous research by a number of different groups of American Scientists. The four main events in this research are as follows :

In 1934, Drs. C. T. and C. J. Grove, of Minnesota, discovered that the saliva of those immune to caries was much richer in ammonia than of those susceptible. Later they found that artificially increasing the ammonia content not only greatly reduced the Lactobacillus Acidophilus count but helped to dissolve the filmy deposits which hold the acid against the tooth enamel.

In 1940, a leading Dental Clinic in Chicago, reported a reduction of 95% in cavities through the use of a dentifrice containing Carbamide (synthetic urea).

In 1945, Doctors of the University of Illinois found that Dibasic Ammonium Phosphate also produced excellent results.

Working during the same period, Doctors of the Eastern Graduate Research Foundation of New York, combined the two chemicals and reported to the International Association for Dental Research the result of a large-scale scientifically controlled test, which showed that 82% of the patients had fewer cavities when using the new "ammonium icn" dentifrice than they had for the seven years before. That dentrifrice is Ammi-dent.

The importance of this particular combination lies in the fact that the influence of the Ammonium Ion released in the mouth persists under normal oral conditions for as long as 24 hours.

DISTRIBUTORS :
Fassett and Johnson, Ltd., 86 Clerkenwell Road, London, E.C.1

Ammi-dent

The Ammonium Ion Tooth Powder

MADE AND GUARANTEED BY THE

WERNET DENTAL MANUFACTURING CO.
(Branch of Stafford Miller, Ltd.)
WELWYN GARDEN CITY, HERTS.

The unique qualities of 'SLEEK' plastic adhesive strapping give it an immediate appeal to your customers. By displaying it and introducing it, you will be earning their permanent goodwill.

Use the attractive showcards which are available; they will help you sell 'SLEEK' even more quickly. We have also produced a 'SLEEK' Sales Manual which will give you and your staff all the information you want about the product. 'SLEEK' will give you a quick turnover. Plentiful supplies are available in flesh colour or white.

1" x 5 yard spools . . . **Retail 2/- each**
2" x 5 yard spools . . . **Retail 3/6 each**

'Sleek'

TRADE MARK

PLASTIC ADHESIVE

STRAPPING

Herts Pharmaceuticals Ltd., Welwyn Gdn. City, Herts.
Telephone: Wel. Garden 3333 S15

FOR RHEUMATISM
GOUT, SCIATICA, NEURITIS, ETC.

CURICONES

the trusted remedy that has stood the te of time

STANDARD PACKS

5/6 and **26/5**
including purchase tax

HAVE YOU ORDERED THE NEW

"DISPENSING ONLY" PA
WHICH IS NOW AVAILABL

These contain 500 CAPSULES and are fre of purchase tax

Price 28/2

NEW BOOKLET FOR RHEUMATIC SUFFERERS

This is an authoritative treatise on Rheumatic plaints written in language that the layman easily understand. Copies are now being include both the 5/6 and 26/5 size Curicones Cartons, supplies are also available to chemists FREE request.

Mention is being made of this booklet In National Advertising and readers are invited to their chemist for a copy. Make sure you ha supply of these booklets on hand.

WEATHER-INDICATING NOVELTY SHOWCARDS

Printed In bright, attracti colours. An excellent nove and surprisingly accurat Send us your name a address to obtain one.

STEPHEN MATTHEWS & CO. LTD.
19/21 Farringdon Street, E.C.4

RADIO TIMES

YOUR business benefits from this shop window

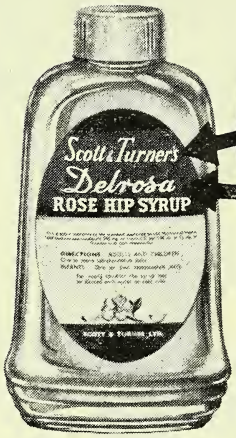
hen the women of 7,776,982 families ok into the shop window of the Radio mes they are already favourably in- ned to the goods advertised, because it the journal they like and trust. They ll therefore be interested in the above nds Cream advertisement from a current ue. So be sure to display Hinds Cream your own shop window and get your are of the sales that always result from vertising in the Radio Times.

Display the goods advertised in the

RADIO TIMES

7,776,982 AVERAGE WEEKLY NET SALE FOR THE FIRST SIX MONTHS OF 1949 MEMBER A.B.C.

Advertisement Department, B.B.C. Publications, Broadcasting House, Portland Place, London, W.1



These names make SALES!

Once this delic
Rose Hip Syrup was
plain *Scott & Turne*
now it is called 'Delr
a name that comes
smoothly off the tongue
the product itself! Make full
of this name in your displays,
tie up with the wide press advertising campaign w
is just beginning. New showcards, window bills and lea
are available to help you. And remember that it is
you that this advertising drive will lead, as the public will be
that Delrosa is *only* supplied by chemists. The label on the
bottle will tell your customers that *here* is 'Delrosa,' that s
Rose Hip Syrup which has built such a high reputation
itself and its producers . . .

SCOTT & TURNER'S *Delrosa*
ROSE HIP SYRUP

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"MANOIDS" OCCASIONAL PILL
ASPIRIN TABLETS
THE ACTON PILL & TABLET Co. Ltd.
ASH VALE, ALDERSHOT
(and all Sundries Houses)

Vhat you can do!

e distribution of welfare foods is driving home to *your* omers, and to the rising generation, the food value of Cod er Oil, and the old prejudice is dying rapidly. Thus a new ever-widening market is building up. Therefore, SevenSeaS ertising, in press, poster and cinema is being increased to you. The opportunity is there — to-day ! A really striking lay at " the point of sale " will turn interest into cash. te to-day for special window display material.

SEVENSEAS

PURE COD LIVER OIL

British Cod Liver Oils (Hull & Grimsby) Ltd., St. Andrew's Dock, Hull

WINTER IS COMING

YOU WILL NOW NEED

LARGER STOCKS

OF THE

POLYESTOL
TRANSPARENT
Pain-Relieving
BANDAGE

RHEUMATIC SUFFERERS EVERYWHERE, in ever increasing numbers, are finding that to "BANDAGE THAT PAIN AWAY" is more efficient and convenient than dosing or rubbing in with Oil or Liniment (verb sap)

Manufacturers and Patentees:

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Brushes—carded.

Each card contains—
6 each Bent and Straight Throat Brushes
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8/6 per Card—Tax Free.

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P.A.T.A.

John Knox (Midland) Ltd. 26/38, Dean St. Birmingham.

JOHN KNOX · JOHN KNOX · JOHN KNOX

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THE ORIGINAL *"WILSON"*

DISPENSING SKILLET

DUST PROOF. WHITE DEMY COVERED

In accordance with N.H.S. requirements

Size	1,	2,	3,	4,	5,
	8 oz.	10 oz.	12 oz.	16 oz.	72 o

STERILIZED DROP BOTTLE

¼ oz. ½ oz. 1 oz.

DUSTING POWDER

BOXES and TINS

SPRINKLER TOPS

COMPETITIVE PRICES

LOVELUCK EDWARDS & CO.
432/440 GARRATT LANE, S.W.18

One of the latest Pepsodent Press advertisements

PEPSODENT
lls a straight story

lentifrice can accomplish cles

xtent to which a dentifrice can cleanse olish the teeth is the only real measure usefulness. The power of Pepsodent paste to do this job is second to none, for with the finest polishing agents obtain- s Pepsodent's exclusive Irium (a brand of lly purified sodium alkyl sulphate), one of nost effective cleansers known to dental ce.

toothpaste retard tooth decay?

'epsodent Company holds that a first-class frice has one major function in the prevention oth decay — to keep tooth enamel free from erious film. Laboratory tests over many years proved Irium to be unsurpassed in its power osen surface debris and emulsify mucous film.

s is front-line protection, because if tooth el is preserved from the action of the destruc- acteria flourishing in film, the life of the teeth e prolonged.

oved product—backed by rful advertising

dent's straight, sensible, and scientifically *proved* is making a strong appeal to the public. Sales p all over the country in consequence. To display dent is to sell Pepsodent! And don't forget, dent's favourable terms mean generous profits!

FILM ON TEETH CAN BE DANGEROUS

The clinging, dulling film that clouds the whiteness of your smile is *hard to shift*. It is active with acid-forming bacteria that can pit delicate tooth-enamel. If left, film can form damaging tartar that only your dentist can remove. *Mere scrubbing will not deal with it effectively.*

TWO-FOLD ACTION

Pepsodent's exclusive Irium emu sifies and washes away stubbo film, uncovers the clean enam then Pepsodent's wonderf safe, sure, polishing a

E IRIUM IN *Pepsodent*

FIGHTS FILM

andard Size 1/4 Double Family Size 2/3

OF-956-100

Stock up your winter lines
Starting with PILLODINES
Protecting young and old
Against the common COLD.

★

Put Watford's lines on show,
Your sales are bound to grow,
Accelerate the rise,
With products chosen wise.

Tablets and Powders—all B.P.
Aspirins, Talcum, D.D.T.,
Vitamin—Tonics and hormones too
Can all be delivered direct to you.

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WATFORD CHEMICAL COMPANY LTD

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P.A.T.A.

Lantigen

SERIES OF DISSOLVED ORAL VACCINES

LANTIGEN Series of Dissolved Oral Vaccines, after 12 years' success in Australia, is now available here.

It is on the P.A.T.A. list, and backed by heavy National Advertising, there is ever increasing demand. Selling price, including Pur. Tax, 25/8d. per bottle. Descriptive leaflets and terms on request.

LANTIGEN 'A' for the Common Cold.
LANTIGEN 'B' for Catarrh and Bronchitis.
LANTIGEN 'C' for Rheumatism or germ-born origi
LANTIGEN 'D' for Staphylococcal Skin Infection
LANTIGEN 'E' for Hay Fever and Asthma.
LANTIGEN 'F' for Whooping Cough.

Supplies direct from Sole Distributors:
J. C. GAMBLES & CO. LTD., 211, BLACKFRIARS ROAD, LONDON, S.E.1
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Manufactured by: LANTIGEN (ENGLAND) LTD., BAGSHOT, SURREY

'he popularity of the "Cruiser Class" Superior omfort Cap is due to its silky, long-stretch natural ubber material and the fact that it can be worn ith or without straps.
vailable in 2 sizes in Snow White, Red, Royal, reen, Pink, Pastel Blue and Pastel Green.

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Over 10 million bathing caps have been manuactured and sold by us all over the world.

Sample and literature on application to :—

LONG & HAMBLY Ltd

Moulded Rubber Manufacturers

NATIONAL PRESS advertising campaign is being run in the leading Women's magazines

★

Showcard, attractive folder and colour chart available.

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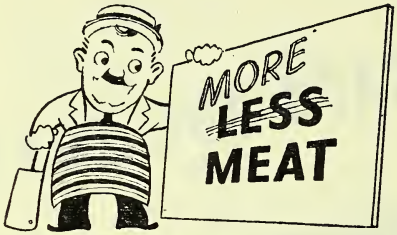

More—or less—meat ? While the hopes of Britons fall and rise with the ration—as its value changes from 1/2d. to 10d., to 1/1d. to 1/4d.—must their nourishment fluctuate, too ? This question looms large in many minds.

Well, an ounce of beef contains about 4.5 grammes of protein—that essential nutrient. So every extra ounce of meat provides *that* much extra protein, and every ounce lopped off the ration deprives us of *that* much vitally needed food.

If meat were our only source of protein, this fluctuating ration *could* be serious. But it's fortunate that there are other just as useful foods, and correct nutritional technique at the moment is to rely on them for protein, accepting the meat ration, whatever its size, as a weekly treat! The "other foods," of course, being milk, cheese, eggs, fish . . . *and Bemax.*

For those requiring a generous protein intake, Bemax will be found an invaluable supplementary food. Its protein content is higher than that of most other common foods, and amino-acid analysis shows its protein to be more like that of "animal" than "vegetable" origin. Actually, weight for weight, Bemax supplies *more* protein than does lean beef, and comparison of essential amino-acid contents shows it to be of *equal protein value* with beef.

* * * *

The recommended daily ounce of Bemax supplies in a week more protein than the meat ration (taken as steak). ***This in addition to its well-known vitamin contents!***

Make sure you have sufficient* BEMAX *in stock to meet the demand.

VITAMINS LTD., UPPER MALL, LONDON, W.6.

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PACKED OR BULK

Our up-to-date equipment enables us to quote the lowest possible prices. Special formulæ our speciality. All standard, official and semi-official products promptly supplied.

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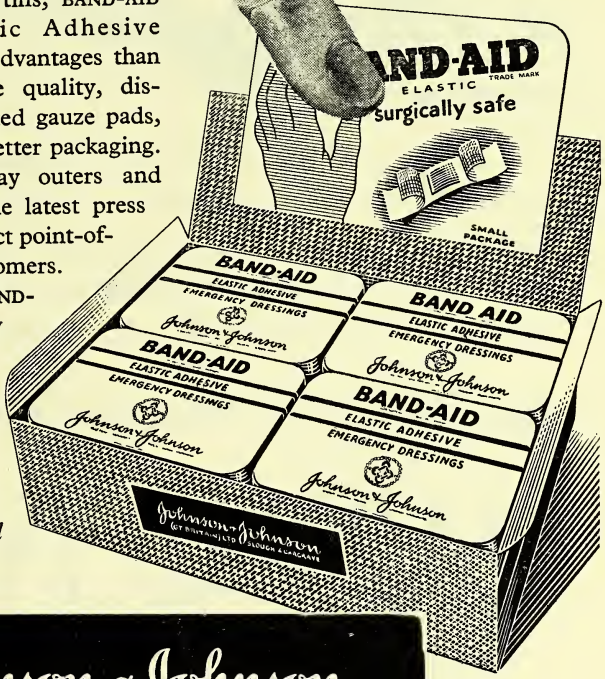
Good news about BAND-AID*

(TRADE MARK

NOW—back in their white tins, BAND-AID Elastic Adhesive ressings offer greater advantages than er: improved adhesive quality, dis- ctive non-fray medicated gauze pads, mplete elasticity and better packaging. NEW BAND-AID display outers and owcards tie up with the latest press vertising and make direct point-of- le appeal to your customers. Everyone knows that BAND- D is made exclusively by hnson & Johnson hose bandages and essings are used by ctors and hospitals all er the world. That's hy your customers trust ND-AID as the *first-aid* at's *surgically safe!*



Johnson & Johnson
(GT. BRITAIN) LTD. SLOUGH & GARGRAVE

AND-AID is the Registered Trade Mark for the Adhesive Dressings manufactured exclusively by Johnson & Johnson.

As the Shadows Lengthen...

. . . and the chilly days of Autumn approach, the common cold comes out to play with renewed vigour—thanks to Serocalcin its playtime of infection is only short lived. At this time many thousands are starting their prophylactic course. Meet the increased demand by ordering Serocalcin now. Packed in 20's and 60's.

FOR THE PREVENTION & TREATMENT OF COLDS

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erts. Tablet manufacturing concern for dis- owing to retirement of managing director. te limited company, owning valuable freehold rn factory premises, fully equipped for pro- on of tablets, pills, capsules, etc. This ess is well known, and has sound trading ds. Total capital investment would be about 500. Full details upon receipt of banker's ence.

ondon, S.W.6. Family dispensing business Kodak and Coty agencies. Has been estab- d 70 years but only held by Vendor since June. Turnover for last 4 months £675 plus .S. fees due (about £44). Price £1,500 all ncludes stock and fittings (approx £1,250).

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9. Orridge & Co., Ltd.: Employment Agency. Vacancies for qualified and unqualified staff in all parts of the country with and without living accommodation Substantial progressive positions. Qualified locum also urgently required.

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Y. Border of S.W.15, in charming sur- ngs. Modern, clean, spacious business, and high-class. Fitted mahogany through- lain road position, with no opposition any n for 3 miles. Excellent flat over shop, self- ed, with well-kept garden. Rent £130 p.a. 11 years, renewable. Yardley agency, etc. eason for disposal, owner's health. Turnover uently capable of further increase. Price for goodwill and lease, £2,250, plus stock tures. Box 6/802.

JM FLASK manufacturing concern for sale. ionally progressive patent; tools; stock; and ll. Owner retiring. Full particulars to e inquiries. Box 6/816.

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TISER desires to purchase a small concern proprietary type in the pharmaceutical or ery or allied field. A manufactory making two fine chemicals might suit. Box 6/810.

SMALL established veterinary preparations business required. Must be pre-war. Box 6/809.

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18/- per half-inch (min.) and pro rata. Box 2/-

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DISTRICT HOSPITAL
(Formerly Kent and Sussex Hospital)
MOUNT EPHRAIM, TUNBRIDGE WELLS

Applications are invited for the position of ASSISTANT PHARMACIST.

Salary and conditions of service in accordance with J.N.C. (Hospitals Staffs). Vacant immediately.

Applications, stating age and qualifications and copies of three testimonials, to A. C. WAIGHT, Administrative Officer.

CONNAUGHT HOSPITAL, WALTHAMSTOW, E.17

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A.2. Middlesex. Opportunity for pharmacist to acquire substantial profit-earning business, at present under management, which should be capable of appreciable further development; turnover for last financial year £8,664; net profit under owner-manager would have approached £2,000; flat available for occupation if required; no near opposition; total purchase price approx. £5,000 subject to value of stock at time of completion.

A.3. London, S.E. Middle and working-class family business. Turnover for last financial year £6,264. Good scope. Freehold can be purchased or 21-year lease will be granted at a com ing rent of £200 per annum. Good flat, in class decorative condition, available for oc tion. Price asked for business £3,000, incl stock and fixtures estimated at £1,500 Fre (if purchased) £2,800. The sole reason for s is that the owner has agreed to purchase ar business and has to complete the transacti quickly as possible.

A.4. North-west London. Very old-estab family and dispensing business occupying s gic position in main centre. There is a branch, the purchase of which is optional. combined turnover for the last financial was £16,556, of which the returns fron branch were approx. £3,000. The leasehold perty in the case of the main shop is als sale, and the owners are prepared to consid offer in the region of £12,000 for the goodwill, fixtures, fittings, etc., plus stock at ation (stock estimated at £1,750).

OFFICIAL VALUERS TO THE N.P.U. BUSINESS PURCHASE FUND

Appointments—Continued

HILL END HOSPITAL & CLINIC, ST. ALBANS, HERTS

DISPENSER (locum tenens), male or female, wanted immediately. Salary 7 guineas per week. Apply, stating full particulars of experience to Medical Superintendent, Hill End Hospital & Clinic, St. Albans, Herts.

WILTS COUNTY COUNCIL SWINDON HEALTH CENTRE

APPOINTMENT OF DEPUTY CHIEF PHARMACIST

Applications are invited from qualified Pharmacists for the appointment of Deputy Chief Pharmacist at the Swindon Health Centre. Candidates should have had not less than three years' hospital or Public Health experience after qualifying as a Pharmacist. Salary £425 per annum, rising by five annual increments of £20 to £525, plus one additional increment of £15 if specially recommended. The appointment is superannuable subject to medical examination, and terminable by one month's notice on either side.

Applications, stating age, qualifications, experience, and the names and addresses of two persons to whom reference can be made, should be forwarded to Dr. T. Ross, Civic Offices, Swindon, as soon as possible.

P. A. SELBORNE STRINGER,
Clerk of the County Council.

County Hall,
Trowbridge.
October, 1949.

WEST HAM GROUP HOSPITA MANAGEMENT COMMITTEE

FOREST GATE HOSPITAL, LONDON Applications are invited for the appoin of ASSISTANT PHARMACIST at Forest Hospital, London, E.7. Whole time. of duty 39 per week. No Sunday duty. ary in accordance with J.N.C. (Hospital S viz., £370, rising by four annual increme £15, and one of £20 to a maximum of per annum and is subject to any amend of the Whitley Council award. Expe will be taken into account in determinin commencing salary within the authorised Newly qualified pharmacists considered. Housing accommodation cannot be provi

Applications, stating age, qualification perience, and copies of three recent monials, should be sent to the Senior Ad trative Officer, Forest Gate Hospital, Lo E.7.

HACKNEY HOSPITAL, LONDON,

Applications are invited for immediate v cies :—
(a) SENIOR ASSISTANT PHARMACIST
(b) ASSISTANT PHARMACIST.
Salary scales: (a) £415-£490; (b) £370- commencing at a point commensurate wit perience.
Prompt attention will be given to applica enclosing copy testimonials, statement of fications, and salary required, to Secr Hackney Group (No. 6), Hospital Ma ment Committee, London, E.9.

BERDOE & FISH
hemists' Transfer Agents and Valuers
GYLE SQUARE, KING'S CROSS, W.C.1
ite St. Pancras and King's Cross Stations)

ted immediately, good class nesses in S.W. or W. of England de or country, with reasonable Clients waiting with cash up ,000.

aluations and Stocktakings, carried out under al supervision of principals
shed 1870 Phone : TERminus 3574

Appointments—Continued

GSTON HOSPITAL, WOLVERTON ENUE, KINGSTON-ON-THAMES

ations are invited for the appointment SISTANT PHARMACIST. Previous ex- ce is not essential and the appointment an excellent opportunity for a newly ied pharmacist desirous of obtaining hos- experience.

ry at present in accordance with the mendations of the J.N.C. (Hospital but subject to retrospective revision to rms of the award of the Industrial Court final recommendations are issued by the aceutical Whitley Council.

ations should be sent as soon as possible Medical Superintendent, together with of testimonials or the names of persons om reference may be made.

OYAL LONDON HOMŒOPATHIC HOSPITAL,

REAT ORMOND STREET, W.C.1.
DISPENSER

y (unqualified) required with good ex- ce. Salary in accordance with Joint iating Committee scale. Apply, stating nd full particulars to Pharmacist.

LONDON HOSPITAL, WHITECHAPEL, E.1.

vacancies for ASSISTANT PHARMA- S at the above hospital. Salary accord- J.N.C. (Hospital Staffs) scale. Experi- will be taken into consideration in deter- g commencing salary. Hours: 9 a.m. to . (on half-day 9 a.m. to 1 p.m.). Occa- Sunday duty and late duty, both subject ditional remuneration. Dining room faci- Applications to Secretary.

OOLWICH GROUP HOSPITAL MANAGEMENT COMMITTEE

lications are invited for the post of TANT PHARMACIST, either Senior or (resident or non-resident) at St. las Hospital, Plumstead. A sterilising is being provided. Salary within the ing scales according to experience:—

Assistant: £370-£450 p.a.
Senior Assistant: £415-£490.

lications to be sent to Secretary, H.M.C., Memorial Hospital, Shooters S.E.18.

QUEEN MARY'S HOSPITAL FOR THE EAST END

(West Ham Group No. 9)
STRATFORD, LONDON, E.15

Applications are invited for the post of SENIOR ASSISTANT PHARMACIST for duties at QUEEN MARY'S and PLAISTOW HOSPITALS.

Salary in accordance with J.N.C. (Hospital Staffs) Scale, namely £415 per annum, rising by annual increments of £15 to £490.

The post is subject to the provisions of the National Health Service (Superannuation) Regulations, 1947.

Applications, giving full details of age, qualifications and experience, together with copies of testimonials, should be addressed to the Chief Pharmacist as soon as possible.

BRITISH ELECTRICITY AUTHORITY. EAST MIDLANDS DIVISION.

Longford Generating Station, Coventry.

Applications are invited for the position of STATION CHEMIST at Longford Generating Station.

Candidates should be qualified to take charge of the station laboratory and be fully conversant with modern generating station practice.

Preference will be given to candidates possing a University Degree or an Associateship of the Royal Institute of Chemistry.

Salary in accordance with Class J, Grade 7, of the National Joint Board Schedule, at present £606, rising to £633, per annum.

The appointment will be superannuable under terms and conditions of the British Electricity Authority's Superannuation Scheme.

Applications must be submitted on the appropriate form which can be obtained from the Divisional Establishments Officer, at the undermentioned address, and when completed, should be delivered not later than October 24, 1949.

W. S. BURGE, Divisional Controller.
British Electricity Authority,
East Midlands Division,
British Electricity House,
Barker Gate, Nottingham.
30/9/49.

HILL END HOSPITAL, ST. ALBANS

20 Miles from London on Good Bus Routes
ASSISTANT PHARMACIST or Dispensing Assistant required immediately. Salary and conditions of service in accordance with revised recommendations of the J.N.C. (Hospital Staffs). Arrangements might be made for the persons appointed to reside in the hospital, if desired.

Apply, stating age and full particulars of experience to Medical Superintendent.

Vacancies advertised are restricted to persons or employments excepted from the provisions of the Control of Engagements Order, 1947.

SITUATIONS OPEN

8/6 for 36 words (min.) then 3d. per word. Box 2/-

RETAIL (HOME)

ASSISTANT, well experienced in dispensing, for Central London. Permanency. Living accommodation if required. Apply Box A/398.

Situations Open—Continued

BOOTS THE CHEMISTS have vacancies in a number of districts for qualified assistants, male and female. Salary (male) Central London £10 5s. to £11 5s. Metropolitan District £9 17s. 6d. to £10 17s. 6d. Provinces £9 10s. to £10 10s. (Female Central London £9 15s. to £10 15s. Metropolitan District £9 7s. 6d. to £10 7s. 6d. Provinces £9 to £10, according to age. Engagements are on a permanent basis with good prospects and eligibility for pension, life assurance, etc. There are also a number of vacancies for unqualified assistants with sound pharmaceutical experience. Good remuneration with a view to permanency. Pension scheme, etc. Applications should be made to Retail Staff Department, Station St., Nottingham, stating age, experience, and district preferred.

BIRMINGHAM. Apothecaries' Hall girl required as assistant. High-class dispensary. Saturday closing. State experience and salary required. Box 6/826.

BRIGHTON. Qualified manager required for high-class pharmacy. Permanency. Good salary, plus commissions. Position calls for initiative and offers excellent scope. Accommodation can be arranged. Apply Box 6/827.

CHEMIST (young) qualified to manage pharmacy in pleasant border town. House available. Full details of experience, and salary required, to Messrs. Pinkerton, Gibson & Co., Ltd., 13 Queen St., Edinburgh, 2.

CHEMIST MANAGER required for Leicester branch. Remuneration £12 per week. Box 6/820.

CHOICE OF SUITABLE accommodation, if required, on appointment. Qualified persons, male and female, are required to manage attractive pharmacies in south-east and south-west districts of London. Positions are available offering salary from £550 to £650 per annum, plus generous commission. Engagements are permanent and progressive and include entry into superannuation scheme. Apply, giving full particulars to the Staff Manager, Royal Arsenal Co-operative Chemists, 113 Powis St., Woolwich, S.E.18.

CROYDON. Unqualified junior assistant required mainly for dispensing in busy pharmacy. Excellent working conditions. Apply with particulars of experience and salary required, to O. L. Carrington, 300 London Rd., Croydon.

DORKING. Unqualified lady required for dispensing. Part or full-time. Apply with details of experience, etc., to O. L. Carrington, 5 High St., Dorking.

HAMPSTEAD. Senior qualified asistant wanted in good-class pharmacy. Quick, accurate dispenser, capable of taking charge occasionally. State age, experience and salary required. Sangster & Co., 2 College Cres., N.W..3 Primrose 0332.

KENSINGTON. Unqualified assistant required for high-class dispensing business. Write or telephone to Gamble & Co., 347 High St., Kensington, W.8. Tel. Western 2730.

LONDON CO-OPERATIVE CHEMISTS, LTD., invite applications from experienced pharmacists for branch managerial vacancies in pleasant suburban areas. Modern, well-equipped shops with good supporting staffs; attractive salary, generous commission, with payment for all rota duties. Positions permanent and superannuated, with excellent promotion prospects. Choice of living accommodation, house or flat, where required. Full particulars as to experience, wages required, etc., to Superintendent Chemist, Grange Rd., Leyton, E.10.

M.P.S. REQUIRED, lady or gentleman, as superintendent. Salary £10 per week. Commission on N.H. dispensing. Living accommodation available for single person if required. South Norwood. Box 6/794.

LONDON. City pharmacy. Required, unqualified assistant, with sound pharm experience, good salesman, window dres Sunday duty; early closing Saturday. Wr ing age, experience and salary required Hooper & Co., 6 Railway Pl., Fenchurch S

NORTH LONDON (near City). Qualified required for modern branch pharmacy, wor family business. Hours 9-6 p.m. (Thursday No Sunday duty. Agreeable permanency able man, able to take charge. Write, 33 Ave., Kenton, Middlesex.

OLDHAM CO-OPERATIVE CHEMISTS, LT a vacancy for a pharmacy branch manag day half-day. Saturday, close 4 p.m. Sup tion. 44-hour week. Applications stating perience, etc., to Oldham Co-operative Ltd., King St., Oldham

PHOTOGRAPHIC ASSISTANT salesmen Permanent position. Prospects will be person willing to use initiative and wo Wallace Heaton, Ltd., 127 New Bond St., W.1.

QUALIFIED ASSISTANT, lady or gentle quired to assist in small country busine hours. Furnished accommodation can arranged and a house in the future. Near State full particulars, including salary Box 6/825.

QUALIFIED LADY for pharmacy in S.E. Ideal situation, 4½-day week (Thursday and all day Sat. free. No Sundays). Go to right applicant. Box 6/799.

QUALIFIED CHEMIST required. Permanen or gent. State salary, etc. Sidney H. Blu 106 Bordesley Green, Birmingham, 9.

QUALIFIED CHEMIST (young) required fo ern England to assist with dispensing branches. Good prospects of early prom manager. Apply in own handwriting, givi of qualifications. Box 6/768.

QUALIFIED MANAGER required for bran macy. Salary, £10 per week, and comm National Health dispensing (minimum £1 annuation scheme. Apply, stating age an ence, to Kidderminster Co-operative Ltd., Worcester St., Kidderminster.

SMETHWICK. Experienced assistant req counter and dispensing, male or female wages and conditions. Write, stating e and salary required, to Carr, 142 Oldb West Smethwick.

UNQUALIFIED ASSISTANT required with ence in dispensing. Staff of six kept. A. J Ltd., 71 Lavender Hill, S.W.11.

UNQUALIFIED DISPENSER required by lished firm of chemists in S.E. London. from 9 a.m. until 6 p.m. (Thursdays 1 p. other duties. The position is congenial duties mainly N.H.S. dispensing with some work. Applications invited from Irish wishing to work in London. Apply to th ger, Austins, Ltd., 154 Southwark Pa S.E.16.

WAREHOUSE MANAGER required for retail company. Experience of buying, s stock control essential. Progressive Please write stating experience and salary to John Harley Ltd., 153, Regency Street, S.W.1.

WE HAVE several interesting and well pai cies for unqualified staff in the London Ilford, Greenford, Hounslow and Edgware cation in first instance to Superintendent London Co-operative Chemists, Ltd., Gra Leyton, E.10.

YOUNG LADY, experienced, Hall certific Central London. Permanency. Apply Box

Situations Open—Continued

WHOLESALE

N & HANBURYS, LTD., 48 Wigmore St., require young pharmacist (male) to specia- n suture production. Applicants must be able. Apply in writing, giving details of ications, experience, etc., to The Manager, e Section.

TANT REQUIRED to sales manager of small facturers/exporters. Professional background xperience in advertising ethical pharmaceuti- ental, or veterinary products essential. Box

TANT FOREWOMAN experienced packing aceuticals, tablets and ampoules; progressive on with established manufacturing chemists dern factory near Alperton and Perivale sta- Five-day week. Apply Box A/418.

POUNDER wanted for small factory in S.W. used to the manufacture of all general per- ry lines, creams, powders, lotions, etc. Apply, particulars of experience, age, and wages red, to Box 937, Sells, Ltd., Brettenham e, London, W.C.2.

EMAN, aged 40-50, required by manufacturing ists in South London. Knowledge of large- galenical manufacture and D.D.A. control tial. Apply in first instance, giving details of ience, etc., to Box A/402.

NULATOR, experienced, required for tablet of manufacturing chemists in Hertfordshire, iles from London. General knowledge of tab- aking an advantage, but not essential. Reply, g full details, Box A/420.

L AND COSMETIC PREPARATIONS. Agents good connections with hairdressers and chem- required: Midlands, Wales, Home Counties. l commission. Reply with details, territory and ience, to Box 6/822.

CASHIRE. Assistant required in the manufac- g laboratory of small wholesale and manufac- g chemists. Applications, with details of age, ing and experience, to J. J. Thomas & Son, anging Rd., Rochdale. This advertisement ars by permission of the Ministry of Labour National Service under the Control of Engage- Order, 1947.

CASHIRE AND CHESHIRE. A first-class repre- tive with well-established connections is re- d by very progressive manufacturers of finest ty medicated confectionery and non-competi- specialities doing substantial trade on this tory. Several hundred existing accounts will be d to selected applicant. The appointment s exceptional prospects and only applications gentlemen of the highest integrity and ability be considered for the vacancy. Car is an ediate advantage. Please furnish the fullest ils with references and photograph. Address to Director, Box 6/821.

DON PHARMACEUTICAL HOUSE has vacancy medical/trade representative for South-Western nties residing in or near Exeter. Pharmaceuti- experience an advantage but not essential. Pro- ive salary and full expenses. Pension. Write, rst instance, to Box A/5.

ICAL REPRESENTATIVE required for Scotland old-established London manufacturing chemists all on doctors, dentists, hospitals and the retail wholesale trade. Applications invited from 25-35 years of age, trained in pharmacy, ified or unqualified. Previous outdoor experi- and knowledge of Scottish territory an advan- but not essential. State age, experience and y required. Box A/384.

NATIONALLY KNOWN manufacturing chemists of high standing require the services of two representatives to call on chemists and dentists in the following vacant territories: (1) Surrey, parts of Berks and Hants and S.W. London; (2) Eastern Counties. Must reside on the territories. Experience of this type of work is not essential, but candidates must have a first-rate background of retail pharmacy. Cars provided. Salary and expenses. Give full particulars of past experience, age, etc., to Box A/403.

NITA PUFF COMPANY require travellers; good commission, in all districts. 110 Dale End, Birmingham.

OLD-ESTABLISHED LOZENGE and pastille house require representative (45-55 years) for Scotland and Northern England. Full particulars to Box A/416.

QUALIFIED ASSISTANT required at once with old-established manufacturing chemists at new laboratories in Ruislip-Harrow area. Experienced in emulsions, tableting and analysing raw materials preferred. Good prospects for keen, conscientious young man. Write, first instance, stating salary required, to Box A/427.

QUALIFIED PRODUCTION chemist or dispenser required. Apply with full particulars and stating salary required. Fairbank Kirby, Ltd., Wholesale Manufacturing Chemists, Grimsby.

REPRESENTATIVE for Eire and N. Ireland, with experience of calling on retail chemists, required by leading manufacturing company. Must be prepared to take a course of training to absorb company's policies and methods. Write, with details of career to date, age, etc., Box A/417.

REPRESENTATIVES already calling on chemists, stores, hairdressers, required to sell as additional line Eclipse razor blades on commission basis in (1) Midlands; (2) South Coast; (3) Bristol and South-West. Apply, Eclipse Razor Blades, Ltd., Harrow St., Sheffield.

REPRESENTATIVE for wholesale chemists' sundries, London area. Wage and comm. Chiefly proprietaries. Car available. State wage and experience. Box 6/814.

REPRESENTATIVE REQUIRED to call on chemists and grocers in South Essex. Salary, expenses and commission. Box A/423.

REPRESENTATIVES with good connections amongst chemists, and capable of talking about medical products, wanted in many parts of the country to introduce an entirely new product with big sales prospects. Generous commission, or part expenses and commission, to men already carrying other first-class lines. Box 6/828.

REPRESENTATIVES required in many parts of the country to visit chemists, stores and Co-ops. Our products may be carried as additional lines. Very high commission offered. Dyesha Products, Ltd., 63 Kensington Park Rd., London, W.11.

REPRESENTATIVES REQUIRED by pharmaceutical house of high repute to detail medical and dental professions, for London, Surrey, Devon and Cornwall (applicants must reside in Surrey); also for Lancashire. Applicants must have had similar experience. Apply, giving details of experience, age, and salary required, to Box A/404.

VETERINARY COUNTER PRACTICE

Indispensable to the rural pharmacist. Profitable to the town pharmacist. 15/- postage 6d.

THE CHEMIST & DRUGGIST,
28 Essex Street, London, W.C.2

Situations Open—Continued

SALES REPRESENTATIVES are required for the following sales territories to call on chemists, stores and grocers selling nationally advertised toilet, medicinal and soap products. Only applicants having existing connections and residing in the territory named need apply. (1) County of Durham; (2) Liverpool and South-West Lancashire; (3) South-East Lancashire (excluding Manchester); (4) Central and East Lancashire. Car will be provided. Superannuation scheme operated. Write, giving details of age, experience and salary required, to Box W.2999, Benson's Kingsway Hall, London, W.C.2.

SALES REPRESENTATIVE specialising London stores and connection with wholesale trade generally required for quality toilet and industrial brushware. Staff appointment, salary and commission, with travelling expenses paid. Apply Universal Brush Co., Ltd., Luton.

SHARP & DOHME, LTD., invite applications for the staff positions (pensionable) of medical representatives. The work is varied and interesting with products which are mainly the result of original research, for introduction to medical men and pharmacists. Applicants should have a good pharmaceutical or medical background and be resident in any of the following counties: Middlesex, Norfolk, Suffolk, Cambridge, Gloucestershire, Wiltshire, North Hampshire, Derbyshire and Staffordshire. Thorough initial training given. Full personal particulars should be submitted to Home Sales Manager, Sharp & Dohme, Ltd., Hoddesdon, Herts.

TABLET COATER. Urgently required, a capable all-round pill and tablet coater to take charge of department dealing with plain and coloured work, London area. 5-day week. Apply, giving age, experience and salary required. Box A/415.

TABLET MAKER. A thoroughly experienced tablet maker is required by a well-known London house to understudy foreman with a view to succession later. Write, giving details of experience, age and salary required. Box A/414.

TRAVELLER WANTED by manufacturers to sell first-class novelty toilet bags as a side line to retailers on commission basis. State area covered. Box 6/805.

WANTED IN SCOTLAND, Northern Counties, Eastern Counties, representatives with established connections to carry old-established C.F. line on commission basis. The line has unique features and recognised to be a leader in its field. A good "extra line" for the right men. Box 6/793.

WEST OF ENGLAND. Two territories will shortly become vacant for first-class salesmen seeking the wider scope offered in Pharmacy field. (1) W. Hampshire to Lands End, and (2) S. Wales, incl. W. Glos. Only thoroughly experienced men are invited to apply. Must have indisputably good sales record and have represented houses of high repute. Will be required to sell not more than five or six products with consolidated sales and rising turnover trends. All are nationally known and well advertised. Preference given to men with own car. Permanent appointment. Steadily progressive post. Apply with fullest particulars to Box A/421.

YOUNG CHEMIST REQUIRED. Duties mainly in laboratory. Preference would be given to one with some commercial experience. Salary £400 to £500 per annum, according to qualifications. Reply Box A/425.

WHOLESALE (OVERSEAS)

GLAXO LABORATORIES, LTD., have a vacan a medical representative on the staff of their office. Applications are invited from suitably fied pharmacists aged about 30 and preferab married. Fluent knowledge of French is es but previous sales experience is not nec Write, giving full details, to M.R.C., Pe Department, Glaxo Laboratories, Ltd., Gree Middlesex.

SITUATIONS WANTED

3/- for 18 words (min.) then 2d. per word. B

RETAIL (HOME)

ELDERLY RETIRED PHARMACIST requires time duties or 2½ days weekly, London or M.P.S. Box 6/803.

LOCUMS SEEKING ENGAGEMENT

GENTLEMAN (41), unqualified, 25 years' expe all branches of pharmacy, available now on Excellent references. Box 6/824.

WHOLESALE

CALLING ALL FIRMS engaged on foreign and/or foreign research. M.P.S., French, Ge Italian, Norwegian, Danish, Swedish, Sp periods of study at Paris, Oslo and L Universities, seeks interesting situation. Only figure salary considered. Box 6/785.

EXPERIENCED TRAVELLER, many years' co tion with chemists, etc., over most of Er and North Wales. Salary, expenses, only with mission. Please state full details. Box 6/800.

EXPERIENCED REPRESENTATIVE, 53 years o with strong connections chemists, stores, South don and Home Counties, offers representatio firm of repute. Box 6/807.

LIVE REPRESENTATIVE, 20 years' sales exper desires permanency with reputable house. and/or propaganda. Extensive connection thr out Southern England, particularly chemist pitals Kent, Surrey, Sussex, Hants and South don. Own car. Box 6/795.

MANUFACTURING, DISTRIBUTION, on exper tal work; a position offering scope and inter sought. Experience includes department ma and handling automatic machinery, familiar injections, tablets, and pill processes. Age Ph.C. Holme, 6 Channel View Rd., Wooding Brighton, 7.

REPRESENTATIVE, working on a commission calling on chemists, ironmongers and departm stores in the West Midlands area, desires manency. Write Box 6/819.

REPRESENTATIVE, 37 years age, 18 years' experience, internationally known houses, Co department stores, wholesale, retail chemists, dressers, desires appointment leading cosmet toilet house. Excellent connection four nor counties. Agency basis considered. Salary, con sion, expenses. Box 6/773.

REPRESENTATIVE, exceptional connection. Che stores, co-ops. S. E. London, Kent, Sussex, Surrey. Requires commission lines, opportunit first class products. Box 6/787.

SALES MANAGER just returned from India having marketed successfully ethical pharmace products for 10 years wishes to join progr firm. Willing to start at the bottom for the of future prospects. Prepared to return to if interesting situation offered. Box 6/811.

AGENCIES

for 36 words (min.) then 4d. per word. Box 2/-

TS with first-class connections with chemists, red to handle a popular six and eight ex- e roll film. Attractive discounts and com- n. The Panda Film Co. (Wholesale), Ltd., ings Corner, Mitcham, Surrey.

TS REQUIRED with existing connections with chemists to carry attractively packed range edicated confectionery, i.e., glycerine and currant pastilles, liquorice and menthol pellets, Commission terms. Willsons (Doncaster), High Rd., Balby, Doncaster.

AGENCIES WANTED

or 36 words (min.) then 3d. per word. Box 2/-

S. AJIT SINGH managing partner of Dr. Jai , Son & Co., of Delhi (with long experience expert knowledge of trade and territory) is esent in London and open to consider total rtial Indian representation for first-class houses drugs, chemicals, pharmaceuticals, surgical ment and supplies, cosmetics, perfumery, etc. spondence invited. Write to Chesterfield , Curzon St., London, W.1. Phone Mayfair

LIFIED PHARMACIST (well established in dis- requires agency for counties of Derby and ngham for surgical dressings and sanitary , etc., on a commission basis. Other lines considered. Car owner. Box 6/812.

ESENTATIVE requires agency; commission Connection with wholesale chemists, stores, Box 6/806.

BUSINESS OPPORTUNITIES

for 36 words (min.) then 4d. per word. Box 2/-

ACCHARIN PACKING

pacity available for speedy delivery.

Box A/424

ENTIRELY NEW medical product with big and N.H.S. potential will shortly be intro- by manufacturing chemists, who wish to nt reputable firm or firms to undertake selling distribution on a national or regional basis. 6/829.

UFACTURING CHEMISTS have facilities and available for the manufacture and/or packing omestic, industrial or toilet products. Bottle, er and tube filling. Frank Macowal, Ltd., oughborough St., S.E.11. Reliance 3435.

UUM FLASK REFILLS, made in Belgium, e. 4,000 immediately available. Metal vacuum containers, pint size. British made. 3,000 for export only. Bargain price. Box 6/815.

FOR SALE

SALE. 146 gross flat bottomed glass tubes, $\frac{15}{16}$ m.m. with corks to fit at 2/6 per gross. 821, Erwoods, Ltd., 211 Piccadilly, London,

WANTED

17/6 for 36 words (min.) then 4d. per word. Box 2/-

CARMINE WANTED, any quantity. Also cochineal blacks or silvergrain. Please write Box A/426. Telephone Prospect 1919.

DORMANT registered trade mark wanted under classification (3), (5) or (1), with or without the goodwill of the business in which it was used. Box 6/808.

GLYCERINE, B.P., in large or small quantities Please state prices, quantities and how packed. Box 6/804.

WANTED. 10 or 12 h.p. car, just out of convention. Full particulars to W. B. Cartwright, Ltd., Rawdon, Leeds.

WANTED, Gardner sifter and mixer, size "C" or "D". Must be in good condition. Write Box 6/813.

MISCELLANEOUS SALES

17/6 for 36 words (min.) then 4d. per word. Box 2/-

BOTTLES AND JARS for toilets with closures. All new as follows: 350 gross 100 c.c. toilet cyls. 200 gross, 2 oz. pomade jars. 500 gross 2 dram perfumes. 50-100 gross 2 oz. amber jars. 250 gross 2 oz. talc. bottles. 200 gross 2 oz. arch sprinkler bottles. All above, nearly new and in perfect condition. Further details from Eleanor Nesfield, Hough Hall, Hough Hall Rd., Manchester, 10, or telephone Col. 2218.

BOTTLE-WASHING MACHINE for sale. Dawson Hydro. Steam heated, complete with pre-soaker, 50 trays, pump filters and spares, to take any size bottles up to 11 in. high. Cost £467, only used two months. Offer invited. Rapidol, Ltd., 22 St. Margaret's Rd., London, W.7. Ealing 2836.

LARGE QUANTITY 2 oz. bottles filled sodium citrate, fully cartoned. What offers? May 2285 or Box A/413.

ONE NO. 2 Pascall triple roller mill; 1 No. 1 Pascall perflo pin mill grinder; 1 lab. model pin mill grinder (both on stand); 1 triple-head Roberts vacuum bottle filling machine; 1 No. 1 Pascall turbine Sifter. (This machine is new, never been used or run); 2 Mitchell electric stirrers, $\frac{1}{4}$ h.p., with stainless steel shafts and propellors, one geared 460 r.p.m., the other direct drive 1,440 r.p.m.; 3 gas and water heated double-jacketed pans, 45, 35 and 25 gallons capacity; 1 hand compact press, nearly new. All above machinery nearly new and in perfect condition. Further details from Eleanor Nesfield, Hough Hall, Hough Hall Rd., Manchester, 10, or telephone Col. 2218.

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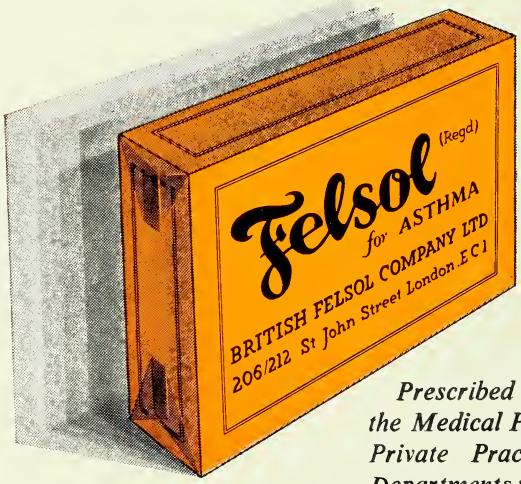

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